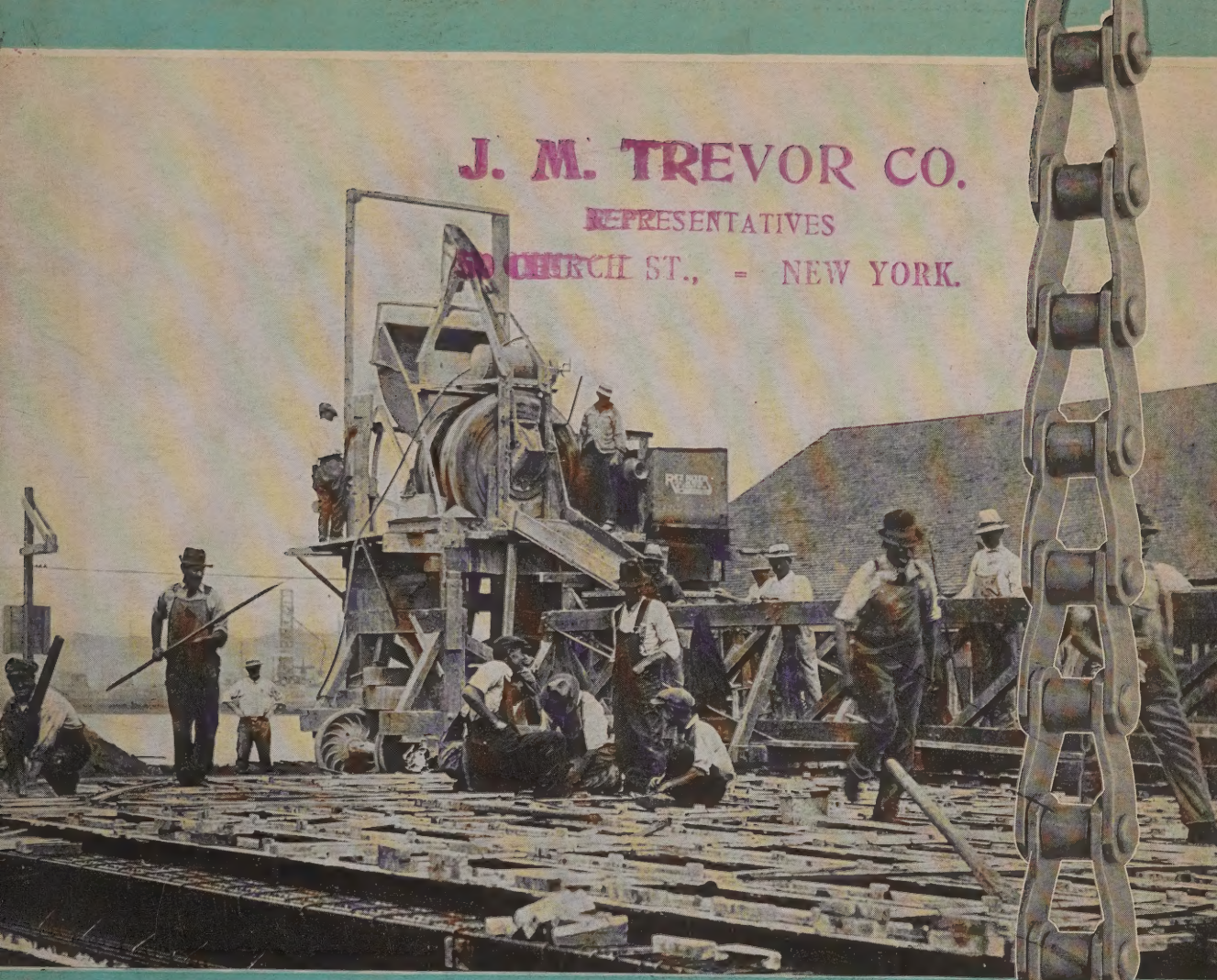
J. M. TREVOR CO.
REPRESENTATIVES
[illegible] CHURCH ST., - NEW YORK.



Rex 21-S at work on Boston Army Supply Base, owned by Raymond Concrete Pile Co.

REX MIXERS

Reg. U. S. Pat. Off.

CHAIN BELT COMPANY

MILWAUKEE, WISCONSIN

Copyright, Chain Belt Company, 1919

REX MIXERS

(REG. U. S. PAT. OFFICE)

FOR PERMANENCE IN CONCRETE

Catalog No. 95

WHILE this catalog features only Rex Building Mixers Nos. 14-S, 21-S and 28-S, we also manufacture the additional sizes Nos. 4-S and 7-S and Rex Paving Mixers. Rex Paving Mixers are built in two types and three sizes as follows:

Standard type, with Distributing Boom and Bucket or Distributing Spout—No. 10-E.

Standard type, with Distributing Boom and Bucket or Distributing Spout—No. 14-E.

Standard type, with Distributing Boom and Bucket, or Distributing Spout—No. 21-E.

Rex Pavers have built into them the same workmanship and special features which characterize the Rex Building Mixers described in this catalog. They are equipped with traction drive—forward and reverse—having the automobile steering knuckle joint and can be easily and efficiently operated by one man.

All Rex Mixers and Pavers not described in this catalog are featured in separate special bulletins which will be gladly sent on request.

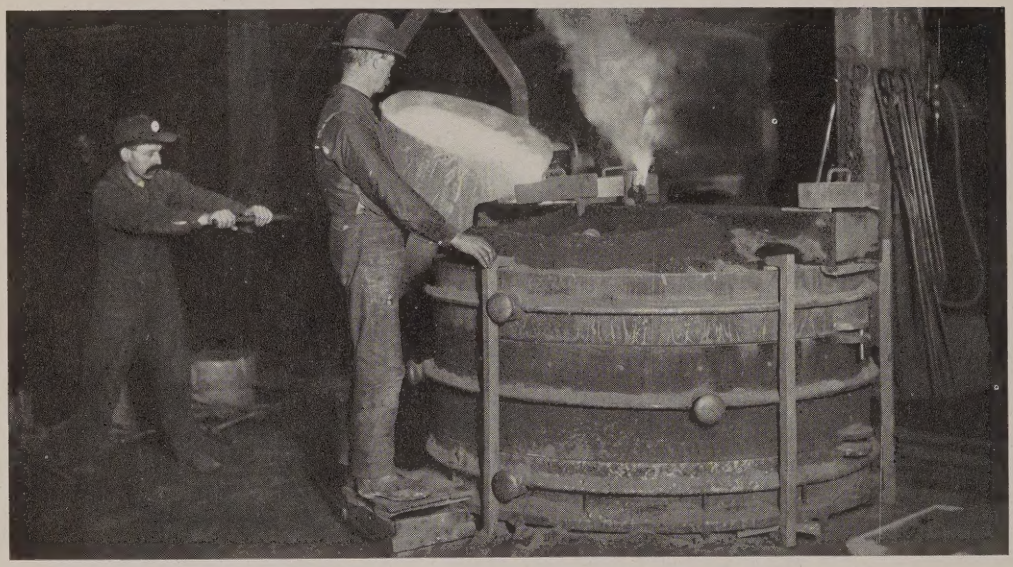
The numbers of all machines indicate the capacity in cubic feet of mixed material.

CHAIN BELT COMPANY

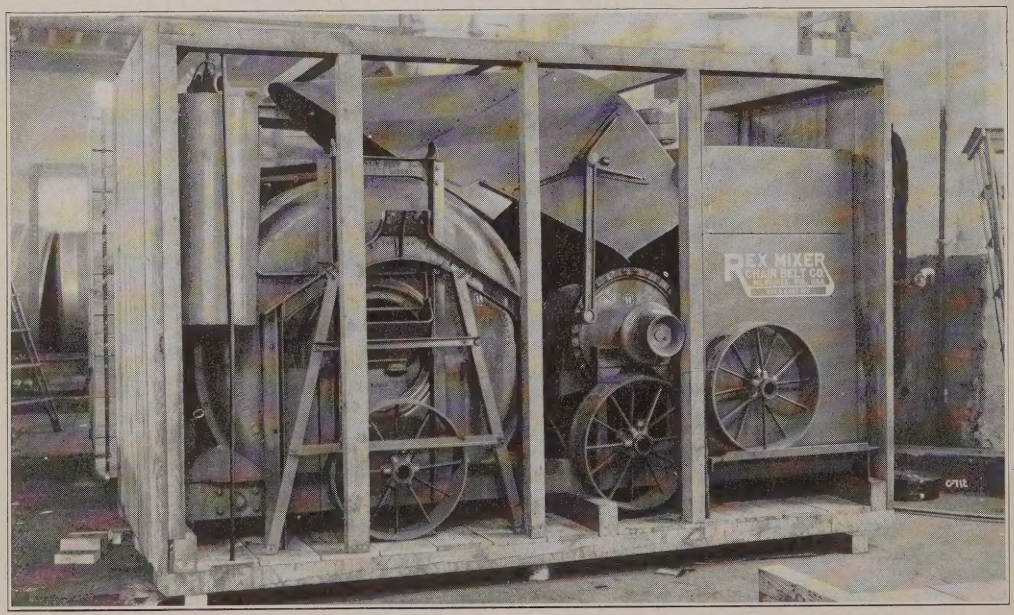
MANUFACTURERS REX CHAIN - REX CONCRETE MIXERS
REX SPROCKETS - REX TRAVELING WATER SCREENS
REX ELEVATORS AND REX CONVEYORS, ESTABLISHED 1880

MILWAUKEE, WIS.

REX MIXERS



Pouring the molten semi-steel for Rex Mixer Drums.



A Rex 14-S with Power Loader and Tank partially crated for export. 163 Rex Mixers were purchased by the General Engineers Depot for service overseas.

REX MIXERS

Six Reasons *for Using Them*

1 **REX MIXERS are made in our own shops.**
We own and operate our own malleable iron, grey iron and steel foundries, machine and structural shops, and all parts of the Rex Mixer are made directly under our supervision.

2 **The REX CHAIN DRIVE is the most economical and most reliable of any drive used on concrete mixers.**
We were the first to adopt a riveted Chain drive. Chain drives on Concrete Mixers are far more practical than gears, because they are smoother running, there is less friction involved, require less power, show less wear and consequently render greater service. In case of a link of chain breaking it can be replaced in a few minutes time, whereas the breaking of a gear disables the mixer indefinitely.

3 **The REX DRUM will outwear the ordinary mixer drum three or four times.**
The Rex Mixer drum is made of cast semi-steel which has a thickness of ½ inch in the thinnest place. Extremely large buckets, large charging and discharging openings make it possible for the mixer to turn out a batch of mixed concrete in from 50 to 60 seconds.

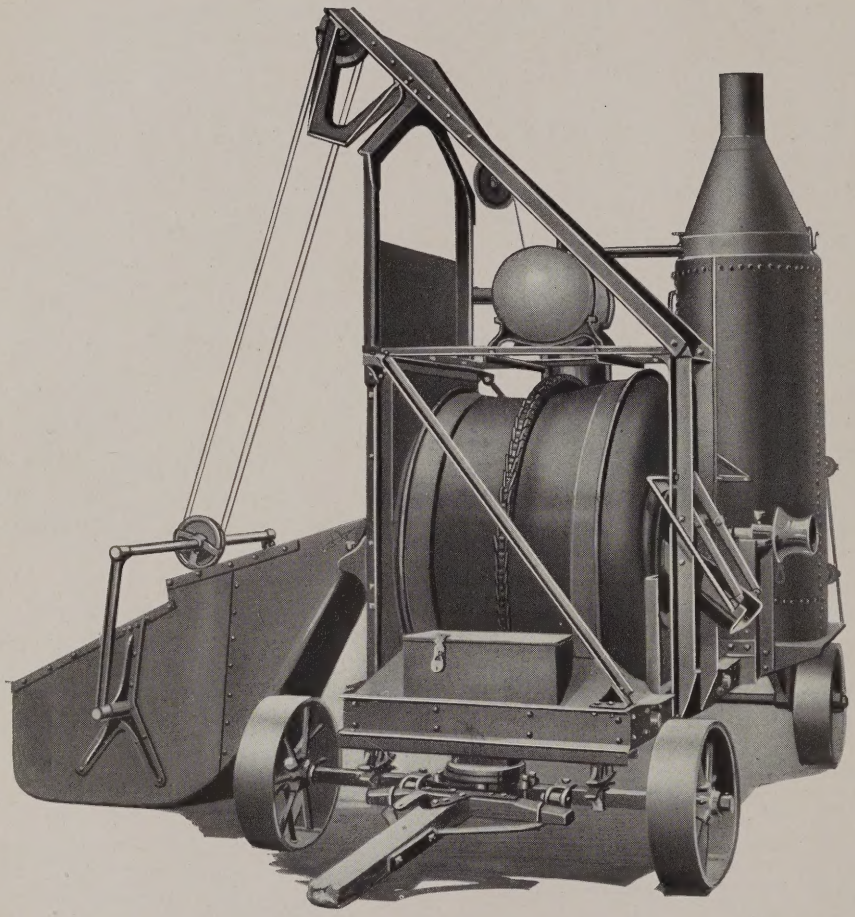
4 **CHAIN BELT COMPANY ENGINEERING is right.**
Our twenty-nine years experience in designing special machinery and the special attention given to contractors' requirements has enabled us to make the Rex Mixer second to no other mixer on the market.

5 **The REX SERVICE DEPARTMENT is always at your call.**
We maintain that the Rex Mixer is less liable to breakdowns than any other mixer. In case of accidents, however, our large stock of parts insures immediate shipment of repair parts.

6 **The REX MIXER is backed by a strong, sound company.**
We have been continuously manufacturing machinery for twenty-nine years. We have the capital, equipment and the organization to build mixers of the highest quality at the lowest cost and sell them at a reasonable price.

Rex Mixers and Pavers are manufactured under Chain Belt Company's patents and any infringements will be vigorously prosecuted.

REX MIXERS



Rex 14-S Mixer on Trucks with Power Loader, Water Tank, Steam Engine and Boiler

The Rex 14-S is the standard type of Mixer which is being used by contractors throughout the country. It is complete in every essential and will stand up under years of hard continuous service.

Steam engine and boiler are generally furnished on this mixer but gasoline engine or electric motor may be supplied if desired.

"We have used five different makes of mixers, each one of which we thought was better than the other until we purchased a REX MIXER. We believe that the REX MIXER is superior to all other makes. We cannot recommend it too highly."

BOLLINGER BROS.—Pittsburgh, Pa.

REX MIXERS

Rex 14-S Mixer with Power Loader and Water Tank

CAPACITY—The Rex 14-S Mixer has a capacity of 21 cubic feet of loose materials or 14 cubic feet of mixed concrete per batch.

CHARGING—This machine is charged by a power loader of the pivoted type. The loader is made of No. 10 Gauge Steel and is wide enough to permit the easy dumping of wheelbarrows. The charged power loader is raised to discharging position by a ⅜″ crucible steel cable.

DISCHARGING—The discharge chute is of the pivoted type. The lower end of the chute is high enough above the ground to discharge the mixed concrete into the wheelbarrows without any delay or unnecessary slopping.

DRUM—The drum is of cast semi-steel made in two sections bolted together. It is exceptionally hard, tough and durable. The runways are machined. The drum is built with a bulge on the discharge side to effect quick discharging. The sprocket teeth are cast in sections which are bolted to the drum. They are amply strong to withstand any strain they may receive in operation, but if through some accident a tooth should be broken, it can be replaced in a few minutes time at a very small cost. The drum is supported on large brass bushed rollers. The faces of the rollers are chilled and ground and cannot wear flat or oval. This insures a true running mixer drum.

FRAME—The frame is constructed of heavy steel channels and thoroughly braced thereby allowing no opportunity for the machine to get out of alignment. We furnish a team tongue with mixer.

DRIVES—This Rex Mixer is driven by Rex Chabelco Chain. We believe that the Rex Chain drive is the most efficient and durable drive ever used on a concrete mixer.

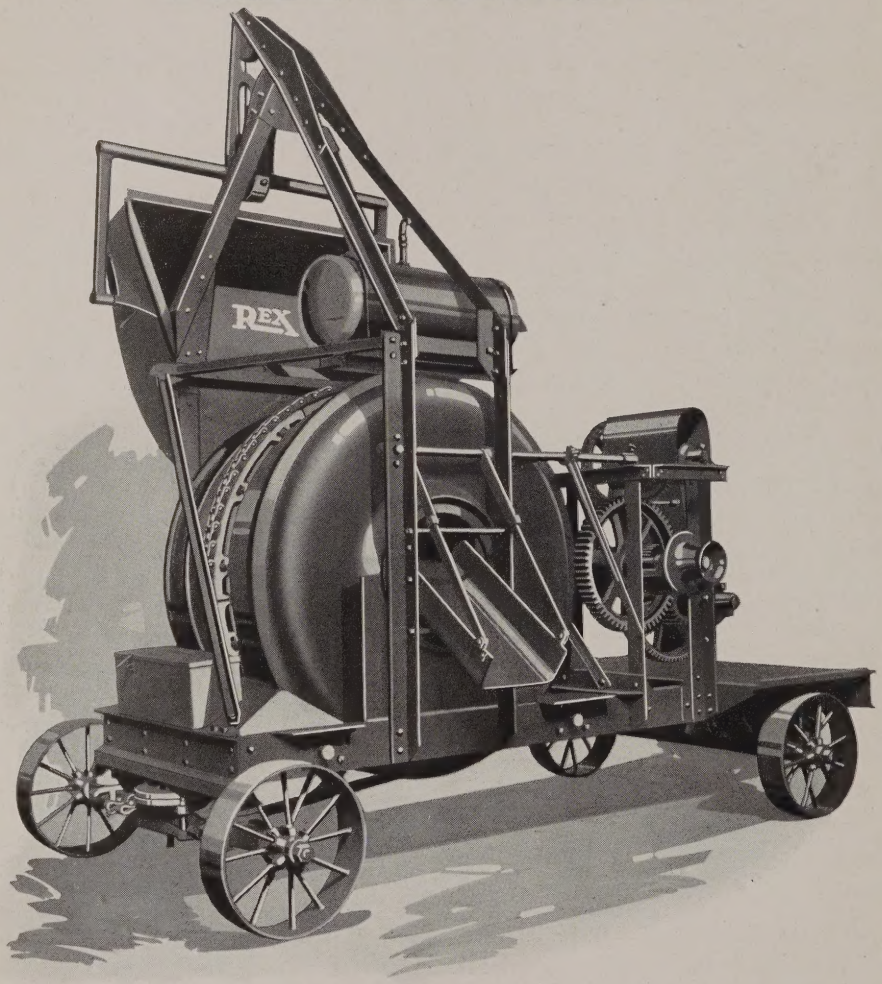
FRICTION CLUTCH—On all Rex Gasoline Driven Mixers a strong plate type of friction clutch is placed on the countershaft. This clutch has a metal plate filled with end grained wood blocks for the friction element.

CONSTRUCTION—The materials used in the construction of the Rex Mixer are steel, malleable iron and refined semi-steel.

TESTING—Every machine is thoroughly tested under its own power and is rigidly inspected before leaving our plant.

For complete specifications see Page 27.
For dimension drawings see Pages 14-17.
Parts illustrated on Pages 18-24.

REX MIXERS



Rex 21-S Mixer on Trucks with Power Loader, Water Tank and Power Discharge

The Rex 21-S is the standard type of Mixer and has all of the commendable features of the 14-S with a larger capacity and power discharge.

The machine illustrated is arranged for electric motor drive but steam power or gasoline engine may be furnished if desired.

The Rex 21-S is however, usually equipped with steam engine and boiler.

"We have one 14-S and two 21-S REX MIXERS. They have always given us the best satisfaction. They are reliable, economical in operation and maintenance and the concrete which they turn out is of the best." *BRAYTON ENGINEERING CO.—Portland, Ore.*

REX MIXERS

Rex 21-S Mixer with Power Loader, Water Tank and Power Discharge

CAPACITY—The Rex 21-S Mixer has a capacity of 32 cubic feet of loose materials or 21 cubic feet of mixed concrete per batch.

CHARGING—This machine is charged by a power loader of the pivoted type. The loader is made of No. 10 Gauge Steel and is wide enough to permit the easy dumping of wheelbarrows. The charged power loader is raised to discharging position by a 5/16″ crucible steel cable.

DISCHARGING—The discharge chute is of the pivoted type and is operated by power from the charging side of the mixer.

DRUM—The drum is of cast semi-steel made in two sections bolted together in the middle. It is exceptionally hard, tough and durable. The runways are machined. The drum is built with a bulge on the discharge side to effect quick discharging. The sprocket teeth are cast in sections which are bolted to the drum. They are amply strong to withstand any strain they may receive in operation, but if through some accident a tooth should be broken, it can be replaced in a few minutes time at a very small cost. The drum is supported on large brass bushed rollers. The faces of the rollers are chilled and ground and cannot wear flat or oval. This insures a true running mixer drum.

FRAME—The frame is constructed of heavy steel channels and thoroughly braced thereby allowing no opportunity for the machine to get out of alignment. We furnish a team tongue with mixer.

DRIVES—This Rex Mixer is driven by Rex Chabelco Chain. We believe that the Rex Chain drive is the most efficient and durable drive ever used on a concrete mixer.

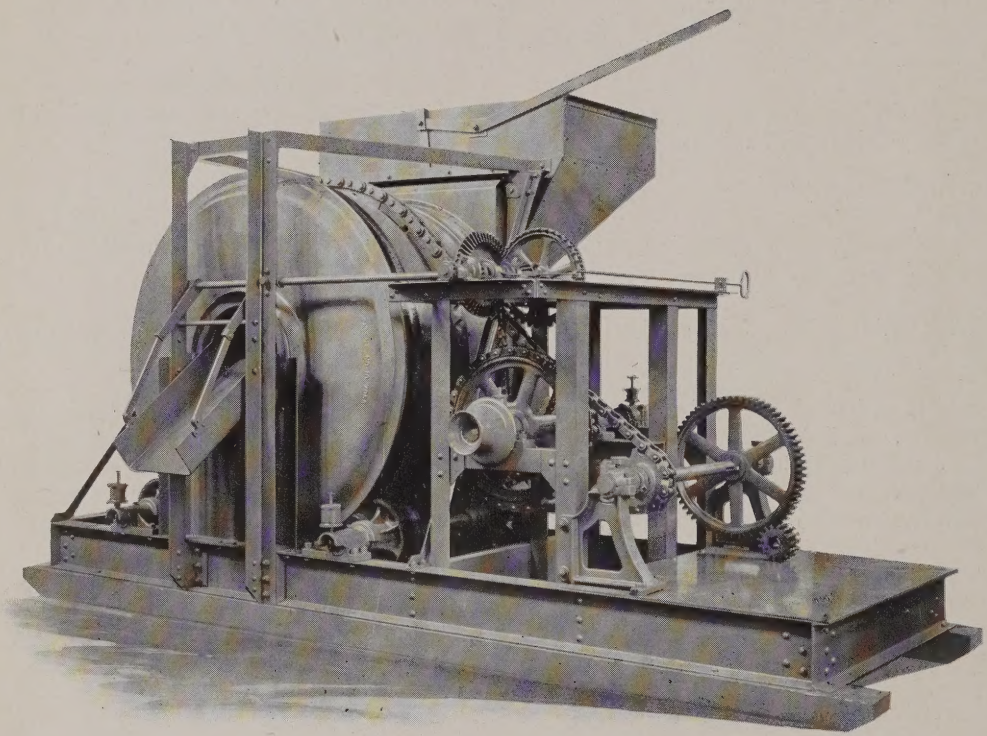
FRICTION CLUTCH—On all Rex Gasoline Driven Mixers a strong plate type of friction clutch is placed on the countershaft. This clutch has a metal plate filled with end grained wood blocks for the friction element.

CONSTRUCTION—The materials used in the construction of the Rex Mixer are steel, malleable iron and refined semi-steel.

TESTING—Every machine is thoroughly tested under its own power and is rigidly inspected before leaving our plant.

For complete specifications see Page 28.
For dimension drawings see Pages 14-17.
Parts listed on Pages 18-24.

REX MIXERS



Rex 28-S Mixer on Skids with Batch Hopper and Power Discharge

This Rex Mixer is designed to operate from one location wherever large concrete work is in process of construction. Bridges, aqueducts and subways may be quickly and economically constructed by the use of these machines.

The Rex 28-S with the proper handling of aggregates will turn out sixty batches of mixed concrete per hour.

"The REX One Yard Mixer used for mixing concrete on the Dry Dock Extension—Norfolk Navy Yards—has proven very satisfactory."

WILLIAM MILLER—Boston, Mass.

REX MIXERS

Rex 28-S Mixer with Batch Hopper and Power Discharge

CAPACITY—The Rex 28-S Mixer has a capacity of 42 cubic feet of loose materials or 28 cubic feet of mixed concrete per batch.

CHARGING—This machine is made with standard charging hopper but most contractors specify a batch hopper when purchasing this mixer.
The batch hopper is furnished at extra cost and is made strong and roomy to hold a complete batch. Number 10 steel is used throughout and a cut-off gate is provided.

DISCHARGING—The discharge chute is of the pivoted type made of $\frac{3}{8}$" plate steel and is operated by power from the charging side of the machine.

DRUM—The drum is of cast semi-steel made in two sections bolted together in the middle. It is exceptionally hard, tough and durable and the openings are made large to facilitate charging and discharging. The runways are machined. The drum is built with a bulge on the discharge side to effect quick discharging. The sprocket teeth are cast in sections which are bolted to the drum. They are amply strong to withstand any strain they may receive in operation, but if through some accident a tooth should be broken, it can be replaced in a few minutes time at a relatively small cost. The drum is supported on large brass bushed rollers which are lubricated by means of compression grease cups. The faces of the rollers are chilled like car wheels and cannot wear flat or oval. This insures a true running mixer drum.

FRAME—The frame is constructed of heavy steel I beams and channels and thoroughly braced thereby allowing no opportunity for the machine to get out of alignment.

DRIVES—This Rex Mixer is driven by Rex Chabelco Chain. We believe that the Rex Chain drive is the most efficient and durable drive ever used on a concrete mixer.

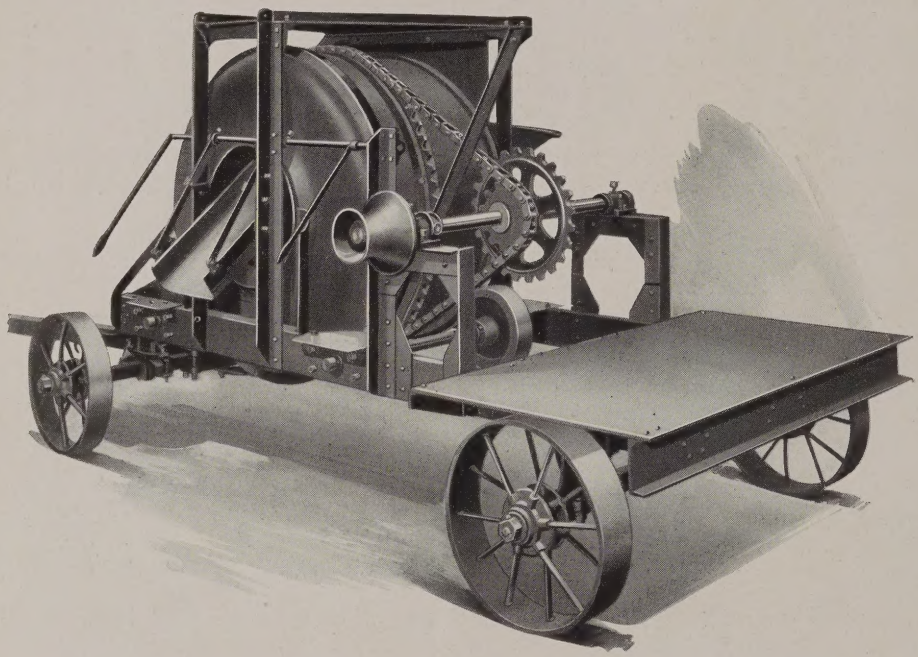
GEARS FOR MOTOR DRIVE—When machine is to be motor driven we furnish a steel forged cut pinion for the motor and a cast iron cut gear on the jackshaft. The drive from the jackshaft to the countershaft is Rex Chabelco Chain.

CONSTRUCTION—The materials used in the construction of the Rex Mixer are steel, malleable iron and refined semi-steel.

TESTING—Every machine is thoroughly tested under its own power and is rigidly inspected before leaving our plant.

For complete specifications see Page 29.
For dimension drawings see Page 17.
Parts listed on Pages 18-24.

REX MIXERS



Rex Mixer on Trucks without Power

Rex 14-S or 21-S Mixers may be furnished without Power.

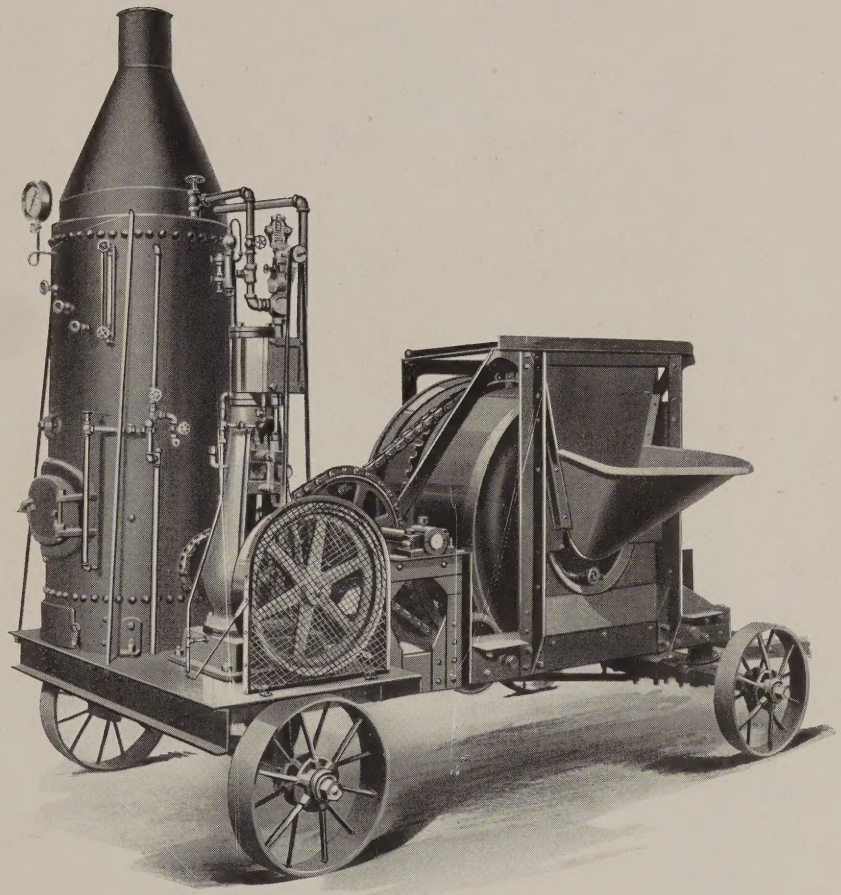
When power can be obtained from an outside source mixer may be equipped like above with either driving pulley, gear or sprocket.

This view shows very clearly the substantial manner in which the frame-work of the mixer is constructed. Heavy steel channels and angles are used throughout, all thoroughly braced and riveted together with hot rivets.

"We have six REX MIXERS and they have met every requirement in a most satisfactory manner. Two of these machines have been put to a very severe test and repair costs have been exceptionally low."

THOMAS KELLEY & SONS—Winnipeg, Can.

REX MIXERS



Steam Driven Rex Mixer on Trucks with Standard Hopper

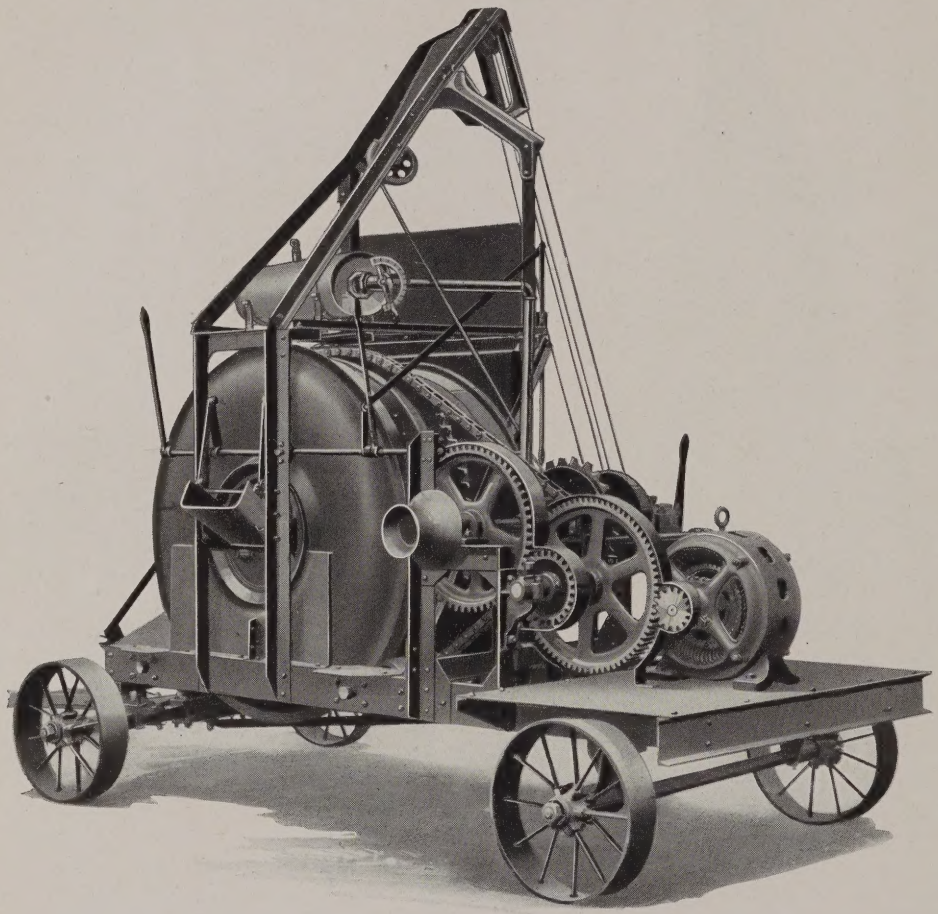
Rex 14-S or 21-S Mixers may be furnished with Standard Hopper although the usual equipment is a power loader and sometimes a batch hopper.

The Standard Charging Hopper is very low.

"We consider that we have had more return for money invested from our Rex Mixers than any other which we have had occasion to purchase. The upkeep has been so low that we consider it a minus quantity. We are now using eleven Rex Mixers and from the standpoint of efficiency, have decided to standardize on them exclusively.

HENRY SHENK CO.—Erie, Pa.

REX MIXERS

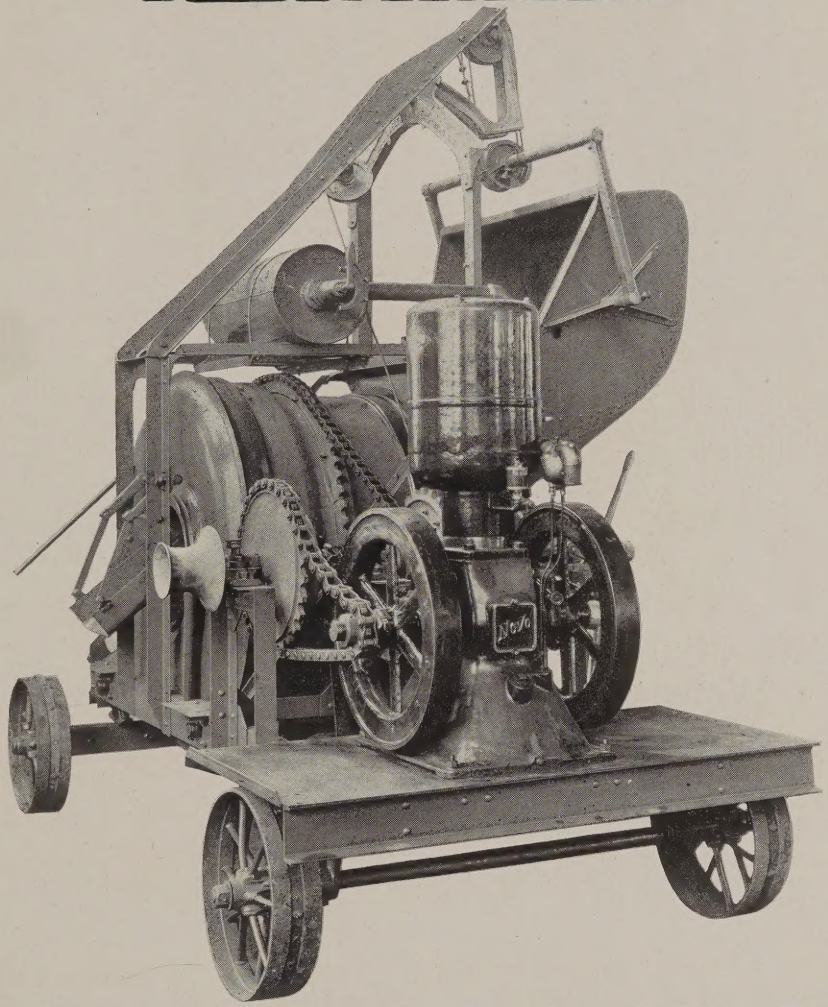


Rex Mixer on Trucks with Electric Motor, Power Loader and Water Tank

Rex 14-S, 21-S or 28-S Mixers can be furnished with Electric Motor. Steel gears and pinions are used for connecting the motor to the jackshaft with the exception of Rex 28-S on which Chabelco Chain is used from the jackshaft to the countershaft. This insures a smooth and quiet operation.

When motors are furnished it is necessary that we know the voltage and whether the current is obtained from an Alternating or Direct current system.

REX MIXERS



Rex Mixer on Trucks with Gasoline Engine, Power Loader and Water Tank, with house removed

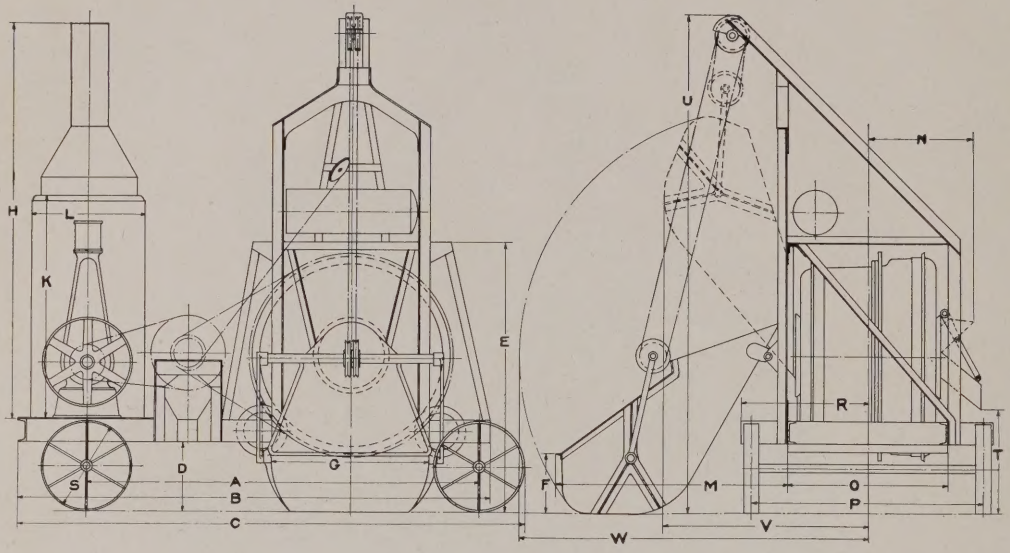
Rex 14-S or 21-S Mixers can be furnished with Gasoline Engine. Local fuel conditions often make a Gasoline Engine very desirable power for operating a concrete mixer and we provide this power where so desired.

Steel house for engine and friction clutch for connecting engine to countershaft are furnished as regular equipment.

"We are using our Rex Mixers on ground crude magnesite with iron ore and have now handled a little over 50,000 tons of material. We have experienced no trouble whatever with this machine."

NORTHERN MAGNESITE CO.—Chewelah, Wash.

REX MIXERS



Rex Mixer on Trucks with Power Loader, Water Tank, Steam Engine and Boiler

DIMENSIONS IN INCHES

Rex Mixer	A	B	C	D	E	F	G	H	K	L
14-S	110	133	146	20	80	21	54	128½	77½	30
21-S	115	138	147	20¼	88	20	62	131½	80½	36
28-S	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

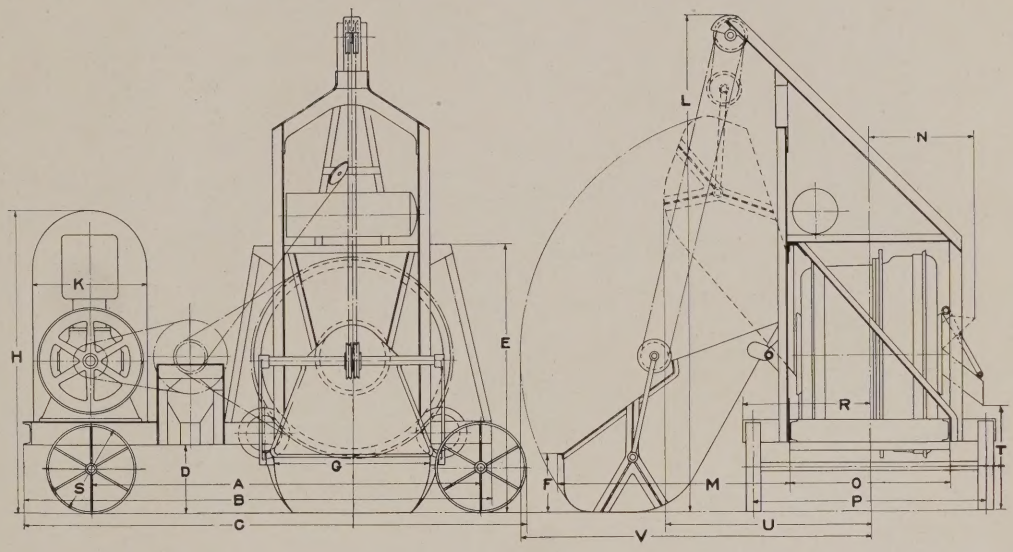
Rex Mixer	M	N	O	P	R	S	T	U	V	W
14-S	68	45	46½	66	36	24	26½	145	65	102
21-S	78	49	48	67½	36	24	32	165	65	112
28-S	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

NOTE:—Dimensions are approximate, and may vary on individual machines.

"Our REX MIXERS are giving us the best of satisfaction and are standing up under all conditions and giving the best concrete and least trouble of any mixers used by us."

THE BRITISH COLUMBIA GRANITOID & CONTR. CO., LTD.—Vancouver, B. C.

REX MIXERS



Rex Mixer on Trucks with Power Loader, Water Tank and Gasoline Engine

DIMENSIONS IN INCHES

Rex Mixer	A	B	C	D	E	F	G	H	K	L
14-S	110	133	146	20	80	21	54	90	34	145
21-S	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
28-S	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

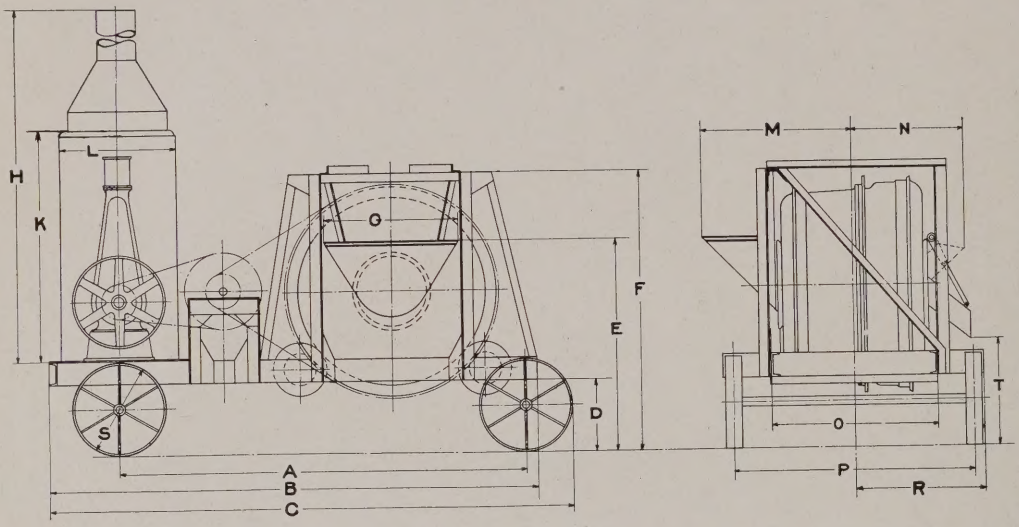
Rex Mixer	M	N	O	P	R	S	T	U	V
14-S	68	45	46½	66	36	24	26½	65	102
21-S	.....	.....	.....	.....	.....	.....	.....	.....	.....
28-S	.....	.....	.....	.....	.....	.....	.....	.....	.....

NOTE:—Dimensions are approximate, and may vary on individual machines.

"We are more than pleased with our REX MIXER which has been in operation for about two years. Our repair bills have amounted to about $8.00."

T. F. BANHAGEL—Lansing, Mich.

REX MIXERS



Rex Mixer on Trucks with Standard Hopper

DIMENSIONS IN INCHES

Rex Mixer	A	B	C	D	E	F	G	H	K
14-S	110	133	146	20	67	80	42	128½	77½
21-S	115	138	147	20¼	74½	88	42	131½	80½
28-S	.....	.....	.....	.....	.....	.....	.....	.....	.....

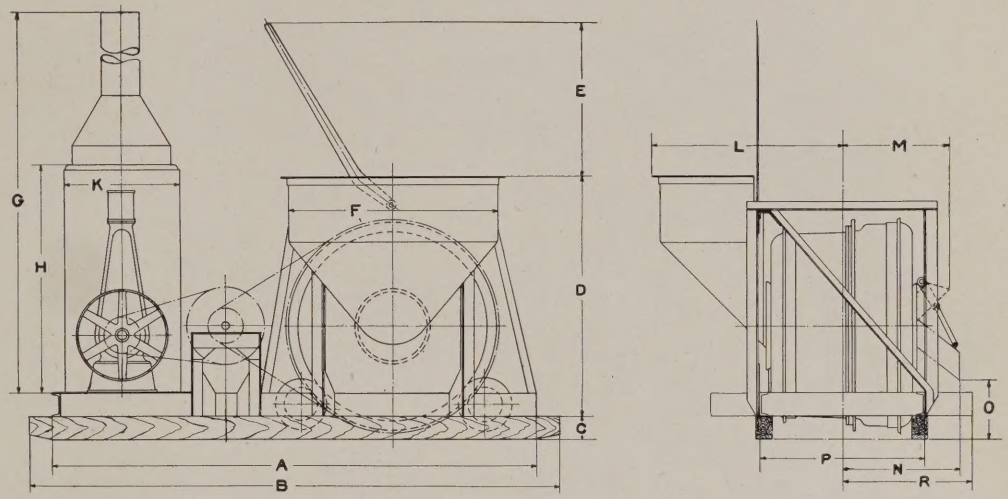
Rex Mixer	L	M	N	O	P	R	S	T
14-S	30	49	45	46½	66	36	24	26½
21-S	36	50	49	48	67½	36	24	32
28-S	.....	.....	.....	.....	.....	.....	.....	.....

NOTE:—Dimensions are approximate, and may vary on individual machines.

"Can get a full batch in one minute or less with REX MIXERS. Have had absolutely no trouble or expense with the mixers since the beginning and they show no sign of wear."

F. O. ENGSTRUM CO.—San Diego, Cal.

REX MIXERS



Rex Mixer on Skids with Batch Hopper

DIMENSIONS IN INCHES

Rex Mixer	A	B	C	D	E	F	G	H
14-S	133	145	5½	66	33	66	128½	77½
21-S	143	155	5½	81½	18	66	131½	80½
28-S	177½	190	5½	102	45	72	140½	89½

Rex Mixer	K	L	M	N	O	P	R
14-S	30	61½	45	33½	12	46½	36
21-S	36	72	49	36	17	48	36
28-S	36	79	56	42	26½	60	..

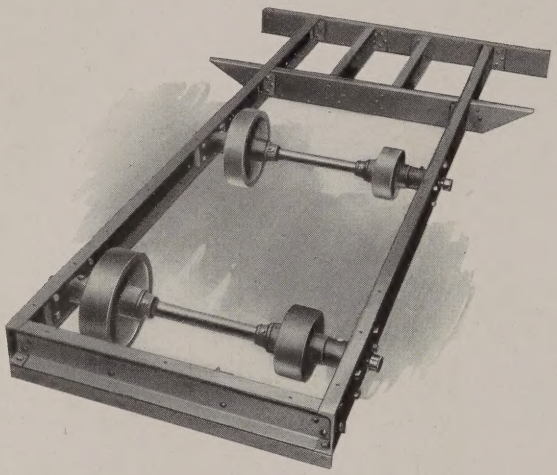
NOTE:—Dimensions are approximate, and may vary on individual machines.

"We are using three REX MIXERS and REX Elevators. We have no complaints to make but on the contrary, give the REX MIXER a boost at every opportunity."

MEYER CONSTRUCTION CO.—Milwaukee, Wis.

REX MIXERS

The Frame and Drum Rollers



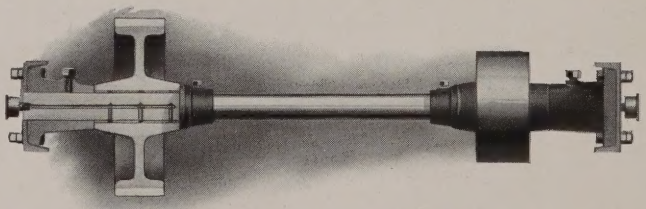
The Rex Mixer Frame is constructed entirely of heavy steel channels and angles, well braced and riveted together, and *never requires blocking up.*

It is made short and wide which gives it additional strength and rigidity and *assures steadiness under all conditions of operation.* The frame being wide allows the engine and boiler on steam equipments to be placed side by side and the engine fly-wheel can be used for driving pumps, circular saws, etc., when desired.

Chilled Semi-Steel Rollers, *similar to car wheels,* are used. They have faces ground absolutely true and are supplied with removable bronze bushings, thus insuring smooth running and long life. The rollers turn on the shafts and lubrication is supplied from steel compression grease cups through hollow shafts. The rollers can be lubricated while mixer is running.

Roller Shafts are made of heavy steel, held rigid in boxes and shaped to fit into side channels of the frame. The rigid construction of the frame makes it impossible for the shafts to get out of alignment.

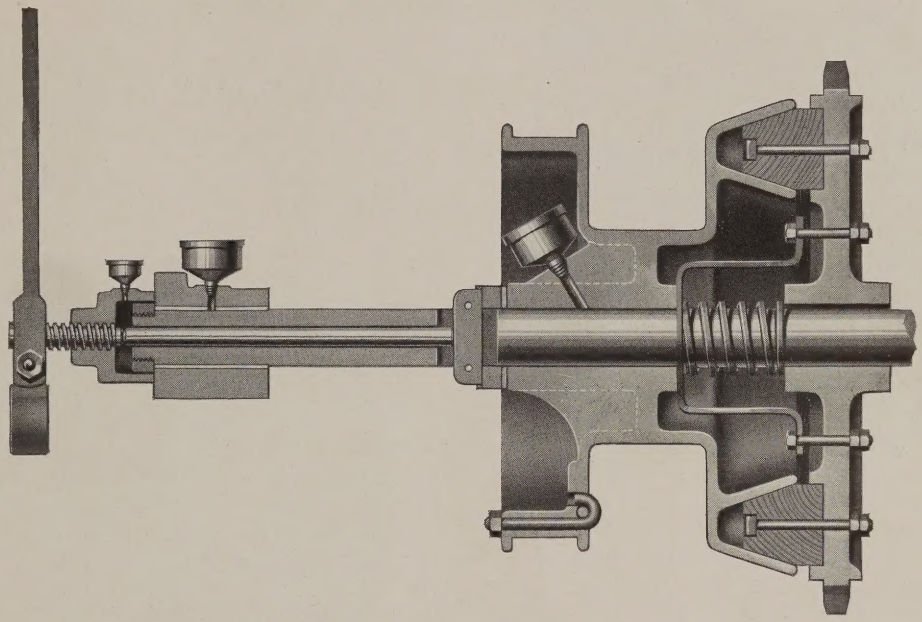
It is very essential when purchasing a mixer to secure one that *does not require blocking* up every time it is moved, for the expense and the time that is unnecessarily lost in this way during the season become large items.



"Of late we have been using exclusively your REX MIXER and we unhesitatingly recommend it to anyone in want of a machine for heavy, continuous work."

SHANK CO.—Chicago, Illinois.

REX MIXERS



The Power Loader Hoisting Clutch

Of the power loader parts the clutch most of all needs to be absolutely dependable, for a clutch that is not positive in operation will be a constant source of trouble and expense.

The clutch shown above is no experiment, being of the same general design and construction as the clutches that have been used on hoisting engines *for the past twenty years.*

It is not affected by the weather and can *be depended upon* to operate satisfactorily at all times as it has no parts that will get out of adjustment.

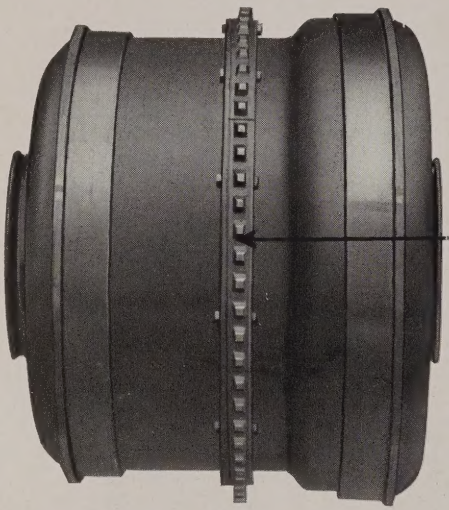
To produce this clutch it costs us *probably three times* as much as the ordinary clutch costs, but this additional expense is justified by *insuring freedom from all* clutch troubles.

"I find your Rex 7-S very efficient, economical and durable. I am more than satisfied with my purchase as the machine has proven everything you claimed for it."

S. M. SIESEL—Milwaukee, Wisconsin.

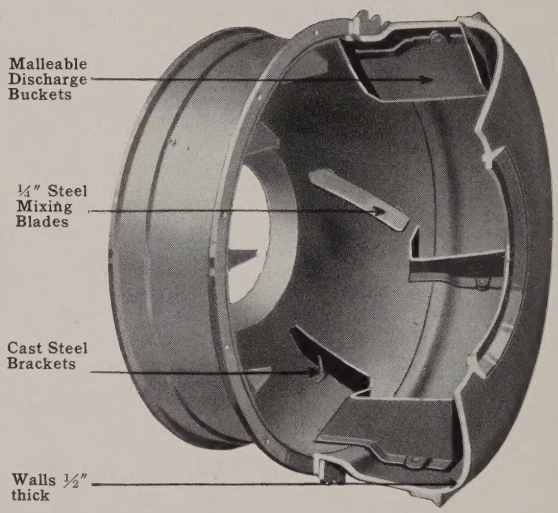
REX MIXERS

Mixing Drum



This sprocket is put on in sections.

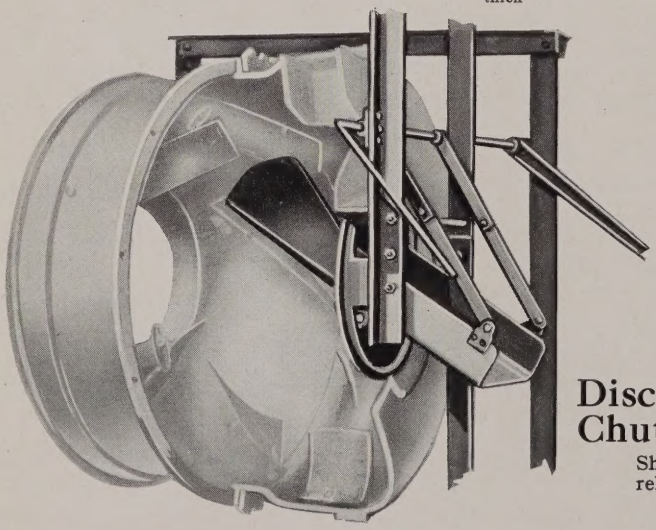
Exterior View



Interior View

"The performance of the one-half yard REX MIXER on the Albany Terminal Dock was highly satisfactory. Repairs to the mixer on the entire job amounted to six cents for a washer in the water tank."

RAYMOND CONCRETE PILE CO.
New York, N. Y.



Discharge Chute

Showing arrangement of relation to Drum.

REX MIXERS

Mixing Drum

The Rex Mixing Drum is made entirely of a special mixture of semi-steel, exceptionally hard, tough and durable. It is cast in two sections, which are firmly bolted together.

This cast semi-steel drum is one half inch thick in the thinnest part and will withstand for an indefinite period the rough usage and constant internal friction to which it is subjected.

There are no bolts or rivets on the interior and all surfaces are designed with liberal curves, in this way absolutely eliminating pockets and the consequent clogging and building up of the material.

The traction surfaces *are wide* and *accurately machined* and the drum being very rigid and cast of semi-steel, these traction surfaces will always remain in perfect relation to each other, which is the only means by which a long and even wear can be secured.

The Sprocket Teeth are cast in sections which are bolted to the drum. They are more than amply strong to withstand any strain that they may receive in operation, but if through some accident one should be broken, it *can be replaced* in a few minutes time *at a small expense.*

The mixing blades are made of ¼ inch steel, riveted to cast steel brackets, which are bolted to the drum. The blades are raised to allow a free passage of water under them.

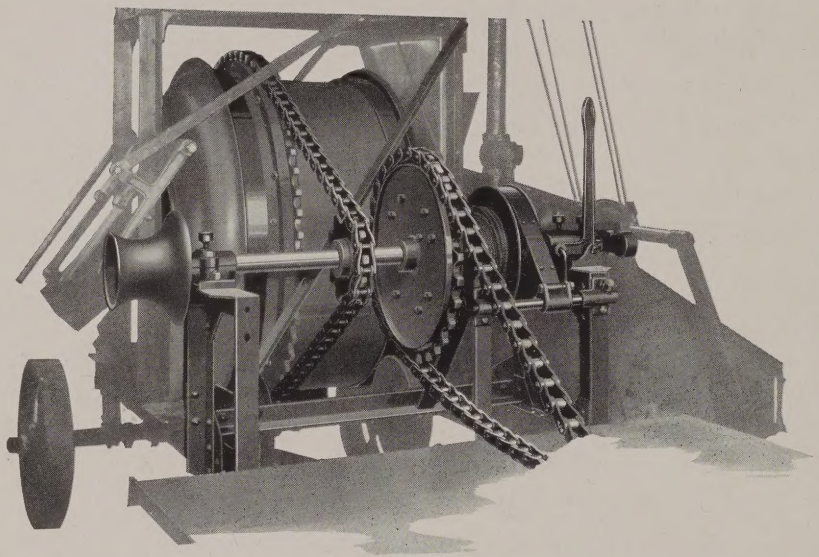
The elevating buckets are made of the highest grade of malleable iron and are of sufficient quantity and of such shape as to elevate the material with the greatest speed and facility.

Discharge Chute

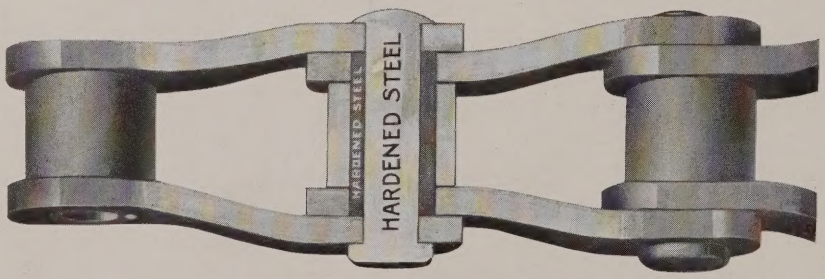
The Rex Discharge Chute is made of heavy steel, hinged to a collar which is bolted to the mixer frame-work. It is operated by a simple arrangement of levers.

When chute is in discharging position the concrete is carried up by the buckets in the drum and dumped onto the chute, which, being pitched at a great angle, *delivers the material at a high speed.*

REX MIXERS



THE REX CHAIN DRIVE
Showing also Countershaft with Sprocket Wheels, Hoisting Drum and Power Loader Hoisting Clutch.



Cross Section of Rex Chabelco Chain.

"We have four REX MIXERS in use. They have given us entire satisfaction and we would be pleased to recommend REX MIXERS to anyone."
THE J. McDIARMID CO.—Winnipeg, Canada.

REX MIXERS

The Rex Chain Drive

Gears have always been a constant source of trouble and expense on a concrete mixer so we *eliminated every gear* and used Rex Chabelco Roller Chain for the drives.

It was a radical departure at the time but now it is hardly possible to find a *contractor* who has used the Rex Mixer who would *buy a gear-driven* machine.

This is due to the fact that the Rex Chain Drive has never caused the slightest trouble; has operated quietly with less power than required by gears; and is practically as good to-day as the day the mixer was purchased.

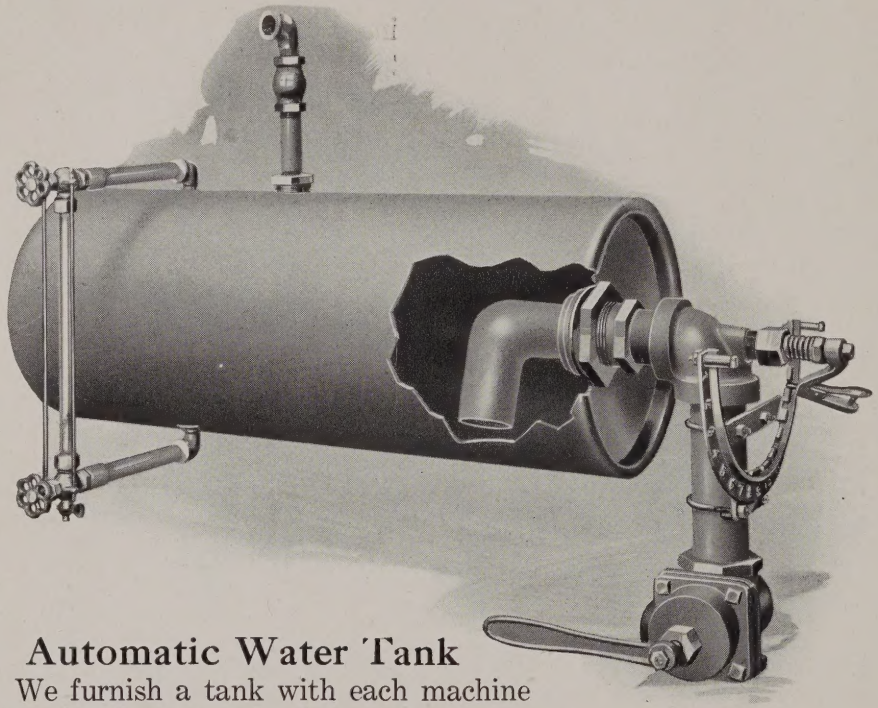
Rex Chabelco Chain is made of special carbon steel with case-hardened steel pins and bushings—the rollers allow it to glide smoothly over the sprockets without noise or friction.

A short time ago we wrote to the many users of the Rex Mixer asking what had been their experience with the drive. Every reply stated that *not the slightest trouble* had been experienced and to our knowledge *no user has ever been caused* the least trouble or expense on account of the drive, either through delays or repairs.

Rex Chabelco Chain has proved itself to be the highest type of chain for mixer drives and its construction is the best which materials and workmanship can produce.

"We have run our REX MIXER for about three seasons. It is the best mixer we have ever used and during the time we have used it, we have not expended one cent for repairs."
BOARD OF COUNTY COMMISSIONERS—Boulder County, Colorado.

REX MIXERS



Automatic Water Tank

We furnish a tank with each machine equipped with a power loader and we recommend its use with machines equipped with batch or standard hoppers. The automatic water tank is of the pressure type and is *extremely simple in construction.* On the inside of the tank is a movable siphon or goose-neck, which may be rotated to the top or bottom of the tank. The position in which lever controlling the siphon is placed determines the amount of water that will be drawn from tank into the drum. The water supply is controlled by means of a three-way valve, one side of which is connected to the hydrant. By turning the valve in one direction the supply is connected with tank and the tank is filled. When tank is full an air valve at the top automatically closes. By turning the valve in the opposite direction, the supply is cut off and the desired amount of water is drawn out of the tank into the mixer drum. Again turning the valve into the first position fills the tank for the next batch. Each batch is supplied with exactly the same amount of water.

"I have had my Rex Mixer on Government work continually for five months and have experienced no trouble. It has cost me practically nothing for repairs outside of dry cells and batteries and I think it is one of the best machines on the market."

J. M. ULMER—Richardson Park, Delaware.

REX MIXERS

Sizes and Capacities of Rex Mixers

The size of mixer required is determined by the number of bags of cement used in a batch and the proportion of sand and stone used in the mixture. For example: The volume of the unmixed aggregates of a two bag 1:3:6 mixture would be 20 cu. ft. and require a Rex 14-S Mixer.

The batch capacities given in the table below have all been verified by extensive tests and are *very liberally* rated.

NUMBER OF REX MIXER	14-S	21-S	28-S
Capacity per Batch in Cubic Feet:—			
Unmixed Cement, Sand and Stone	21	32	42
Mixed Concrete	14	21	28
Capacity per Hour in Cubic Yards of Mixed Concrete:—			
With Standard Hopper	14	21	28
With Power Loader or Batch Hopper	22	31	42
Horse Power Furnished:—			
Steam Engine	9	12	16
Steam Boiler	10	15	18
Gasoline Engine	10	15	.....
Electric Motor	10	15	20

Approximate Shipping Weights (in Lbs.)

NUMBER OF REX MIXER	14-S	21-S	28-S
Mixer on Skids:—			
Without Power	4900	6400	10800
With Steam Engine only	6500	7800	12500
With Steam Engine and Boiler	7800	10300	15500
With Gasoline Engine	7000	....	....
With Electric Motor	5900	7600	12400
Mixer on Trucks:—			
Without Power	5800	7900	....
With Steam Engine only	7400	9800	....
With Steam Engine and Boiler	8700	12000	....
With Gasoline Engine Housed	8000	11000	....
With Electric Motor Housed	6800	8600	....
Power Loader and Water Tank	1200	1400	....

Code Words

NUMBER OF REX MIXER	14-S	21-S	28-S
On Skids:—			
Without Power	Daagde	Eachwhere	Faalden
With Steam Engine	Daagjes	Eactarius	Faamloos
With Steam Boiler	Daagsch	Eadburge	Faamroover
With Steam Engine and Boiler	Daagster	Eadwin	Fabaceous
With Gasoline Engine	Daarachter	.....	.....
With Electric Motor	Daarbinnen	Eager	Fabagella
On Trucks:—			
Without Power	Daarboven	Eagerly	.....
With Steam Engine	Daarlangs	Eagerness	.....
With Steam Boiler	Daarlaten	Eagress	.....
With Steam Engine and Boiler	Daarmede	Eanred	.....
With Gasoline Engine	Daarnevens	.....	.....
With Electric Motor	Daarom	Eapse	.....
Power Loader	Daaronder	Earosi	.....
Water Tank	Daarover	Earinus	Fabaginam
Batch Hopper	Daartegen	Earshrift	Fabaginis

"We are using REX MIXERS at the present time and we feel safe in saying that there is not another machine on the market that we would give preference over the REX."

L. W. DUMAS, JR., CONSTRUCTION CO.—Columbia, Mo.

REX MIXERS

Weight and Dimensions for Export

REX 14-S on Trucks

	Total Cubic Feet	Gross Weight	Tare Weight	Net Weight
Without Power	350	7600	1800	5800
With Steam Engine and Boiler	425	10900	2200	8700
With Gasoline Engine, Housed	400	10000	2000	8000
With Electric Motor, Housed	380	8800	2000	6800
Power Loader and Water Tank, extra	118	1600	400	1200

REX 21-S on Trucks

	Total Cubic Feet	Gross Weight	Tare Weight	Net Weight
Without Power	400	9900	2000	7900
With Steam Engine and Boiler	485	14400	2400	12000
With Electric Motor, Housed	430	10800	2200	8600
Power Loader and Water Tank, extra	180	1850	450	1400
Batch Hopper, extra	140	960	180	780

REX 28-S on Skids

	Total Cubic Feet	Gross Weight	Tare Weight	Net Weight
Without Power	600	13500	2700	10800
With Steam Engine only	680	15700	3200	12500
With Electric Motor, Housed	630	15400	3000	12400
Batch Hopper, extra	190	1090	240	850

"Of the REX type of Mixers, we have been using one of the four foot and eleven of the seven foot for some five or six months,. We have found these machines to be very speedy, easily operated, and to give a thorough mixture in every batch."

CONSOLIDATED ENGINEERING CO., Baltimore, Md.

REX MIXERS

Specifications of Rex 14-S Mixer

STANDARD EQUIPMENT

Steel Frame on Trucks or Skids.
Standard Charging Hopper.
Batch Hopper or Power Loader.
Automatic Water Tank.
Gasoline or Steam Power.
Gear Connection for Motor.

CAPACITY

21 cu. ft. unmixed cement, sand and stone.
14 cu. ft. mixed concrete.

RATING

40 batches per hour 20 cu. yds. concrete.
50 batches per hour 25 cu. yds. concrete.
60 batches per hour 30 cu. yds. concrete.

OVER-ALL DIMENSIONS

See pages 14—17.

FRAME

Special steel car body under-frame.
Sills 6″, 10½ pound channels, length 11′-0½″, width 3′-10½″
Platform ¼″ open hearth steel, length 3′-0″, width 6′-0″.
Upper Frame, 3″ x 3″ x ¼″ angles.

TRUCKS

All steel three point suspension.
Front Axle, built up of two 5″—9 pound channels.
Rear axle, 2 $\frac{3}{16}$″ dia., Cold Rolled Steel.
Road wheels, 24″ dia. 6 x ½″ tire.
Wheel gauge 5′-6″ centers.
Team tongue.

DRUM

Cast of refined semi-steel in two pieces.
Machine finished tracks, flanged joint.
Charging opening, 20″ diameter.
Discharging opening, 18″ diameter.
Discharge buckets, 8 malleable iron.
Mixing blades, 4 open hearth steel, specially shaped.
Drum Drive Chain, Rex Chabelco No. 520.
Speed of drum 16 R. P. M.
Drum Sprocket, 75 teeth, 6 sections; 3 sections, 12 teeth; 3 sections, 13 teeth, bolted to drum flange.

DRUM ROLLERS

Chilled semi steel face 4″, hub 7″, diameter large 13¾″, small 8¾″.
Fitted with bronze bushings, 7″ x 2⅝″ diameter, 2 $\frac{3}{16}$″ bore.
Lubrication, through center of shaft by means of large compression grease cups.

DRUM ROLLER SHAFT

Cold rolled steel 2 $\frac{3}{16}$″ x 3′-9⅞″.

COUNTERSHAFT

Cold Rolled Steel 2 $\frac{3}{16}$″ x 5′-3″.
Speed 95 R. P. M.
Fitted with special winch head on discharge side.

DISCHARGE CHUTE

Pivoted type, ¼″ carbon steel.
Discharges sloppy concrete 12 to 15 seconds.
Discharges heavy concrete 12 seconds.

STANDARD CHARGING HOPPER

Length 3′-6″, width 2′-0″.
Height from ground to top of hopper on skid machine, 4′-4½″.
Made of No. 10 Special Carbon Steel reinforced at top edge with 1½″ x 1½″ x ¼ angle.

BATCH HOPPER

Height from ground to top of hopper on skid machine 5′-11½″.
Made of No. 10 Special Carbon Steel reinforced at top edge with 2″ x 2″ x ¼″ angle.
Capacity 21 cu. ft.

POWER LOADER

Improved pivoted type.
Hoisting speed 42 feet per minute.
Time to elevate 16 seconds.
Width 4′-6″, length 2′-8″, height (closed end) 1′-8″.
Hoisting cable ⅝″.
Capacity 21 cu. ft.

POWER LOADER CLUTCH

Special hoisting clutch, cone type.
Friction surface, end grain oil treated maple.
Rated 15 H. P. at 100 R. P. M.

GASOLINE ENGINE CLUTCH

Special plate type, size 14″.
Friction surface, oil treated poplar blocks.
Rated 17 H. P. at 100 R. P. M.

AUTOMATIC WATER TANK

Automatic measuring pressure type.
Dimensions, 16″ x 36″.
Capacity 30 gallons.
Inlet 1″, outlet 2½″.
Tested to 150 lb. hydrostatic pressure.

NOVO GASOLINE ENGINE

Vertical, hopper cooled, 4 cycle type.
Rating, 10 H. P.
Cylinder, 7½″ x 8½″.
Speed, 400 R. P. M.
Carburetor, spray nozzle.
Ignition, jump spark.
Gasoline tank in engine base, capacity 11 gallons.
Lubrication, enclosed crank case splash oiling.
Steel house furnished with engine.
Accessories, special wrenches, oil cups, can of oil and can of cup grease.

STEAM ENGINE

Vertical, center crank type.
Rated 9 H. P. Speed, 190 R. P. M., Cylinder 7″ x 7″.
Steam opening, 1¼″ Exhaust 1½″.
Flywheel, 28″ x 6″. Crank Shaft, 2 $\frac{3}{16}$″.
Lubricator, Detroit sight-feed. Capacity ½ pint.
Governor, Gardner wide range, 1¼″ diameter.
Throttle valve, Crane's quick opening.
Crank pin box and crosshead pin box are bronze.
Engine Chain, Rex Chabelco No. 520.
Engine furnished with special wrenches, oil cups and drain cocks.

STEAM BOILER

Vertical, full length tube type.
Rated 10 H. P. Over-all height 77⅜″ diameter 30″.
Heating Surface 103 sq. ft. Grate area 3.74 sq. ft.
Tubes, 48-2″ No. 13 Gauge 45″ long.
Steam opening 1¼″.
Safety valve 1¼″ set at 100 pounds.
Check valve ½″. Stop valve ½″. Blow off 1″.
Steam gauge, 5″, registers 200 pounds.
Injector, Penberthy AA.
Safety fusible plug, ½″ in No. 10 gauge tube at low water line.
All fittings, Jenkins.
Furnished with hinged smoke-stack, flue cleaner, hoe and poker.
Boilers built to comply with State regulations.

GENERAL

Each machine thoroughly inspected and painted.
Each machine tested under its own power.

REX MIXERS

Specifications of Rex 21-S Mixer

STANDARD EQUIPMENT

Steel Frame on Trucks or Skids.
Standard Charging Hopper.
Batch Hopper or Power Loader.
Automatic Water Tank.
Gasoline or Steam Power.
Gear Connection for Motor.

CAPACITY

32 cu. ft. unmixed cement, sand and stone.
21 cu. ft. mixed concrete.

RATING

40 batches per hour 31 cu. yds. concrete.
50 batches per hour 39 cu. yds. concrete.
60 batches per hour 46 cu. yds. concrete.

OVER-ALL DIMENSIONS

See pages 14—17.

FRAME

Special steel car body under-frame.
Sills, 7″; 12¼ pound channels, length 11′-6″, width 4′-0″.
Platform, ¼″ open hearth steel, length 3′-4″, width 6′-0″.
Upper Frame 3½″ x 3½″ x $\frac{5}{16}$ angles.

TRUCKS

All steel, three point suspension.
Front Axle built up of two 5″—9 pound channels.
Rear Axle, 2 $\frac{3}{16}$″ diameter cold rolled steel.
Road Wheels, 24″ diameter, 6″ x ½″ tire.
Wheel Gauge, 5′-7″ centers.
Team Tongue.

DRUM

Cast of refined semi-steel in two pieces.
Machine finished tracks, flanged joint.
Charging opening, 22″ diameter.
Discharging opening 20″ diameter.
Discharge buckets, 10 malleable iron.
Mixing blades, 5 open hearth steel, specially shaped.
Drum Drive Chain, Rex Chabelco No. 525.
Speed of drum 16 R. P. M.
Drum sprocket, 68 teeth, 6 sections; 4 sections, 11 teeth; 2 sections, 12 teeth, bolted to drum flange.

DRUM ROLLERS

Chilled semi-steel, face 4″, hub 7″ diameter large 13¾″ small 8¾″.
Fitted with bronze bushings 7″ x 2 $\frac{7}{8}$″ diameter, 2 $\frac{7}{16}$ bore.
Lubrication, through center of shaft by means of large compression grease cups.

DRUM ROLLER SHAFT

Cold rolled steel 2 $\frac{7}{16}$″ x 3′-11½″.

COUNTERSHAFT

Cold rolled steel, 2 $\frac{3}{16}$″ x 5′-4 $\frac{3}{8}$″.
Speed 109 R. P. M.
Fitted with special winch head on discharge side.

DISCHARGE CHUTE

Pivoted type $\frac{5}{16}$″ special carbon steel.
Discharges sloppy concrete 14 to 18 seconds.
Discharges heavy concrete 14 seconds.

STANDARD CHARGING HOPPER

Length 2′-7″, width 1′-9″.
Height from ground to top of hopper on skid machine 4′-0″.
Made of No. 10 Special Carbon Steel reinforced at top edge with 2″ x ¼″ flat bar.

BATCH HOPPER

Height from ground to top of hopper on skid machine 7′-3″.
Made of No. 10 Special Carbon Steel reinforced on top edge with 2″ x 2″ x ¼ angle.
Capacity, 30 cu. ft.

POWER LOADER

Improved pivoted type.
Hoisting speed, 58 feet per minute.
Time of elevate, 16 seconds.
Width, 5′-0″; length 3′-6″; height (closed end) 1′-8″.
Hoisting cable ⅜″ plow steel.
Capacity, 32 cu. ft.

POWER LOADER CLUTCH

Special hoisting clutch, cone type.
Friction surface, end grain oil treated maple.
Rated 15 H. P. at 100 R. P. M.

GASOLINE ENGINE CLUTCH

Special plate type, size 14″.
Friction surface, oil treated poplar blocks.
Rated 17 H. P. at 100 R. P. M.

AUTOMATIC WATER TANK

Automatic measuring pressure type.
Dimensions, 16″ x 36.
Capacity, 30 gallons.
Inlet 1″; outlet 2½″.
Tested to 150 pound hydrostatic pressure.

NOVO GASOLINE ENGINE

Vertical hopper cooled, 4 cycle type.
Rating,15 H. P.
Cylinder, 7″ x 7½″—2 cylinders.
Speed, 400 R. P. M.
Carburetor, spray nozzle.
Ignition, jump spark.
Gasoline tank in engine base, capacity 15 gallons.
Lubrication enclosed crank case splash oiling.
Steel house furnished with engine.
Accessories, special wrenches, oil cups, can of oil and can of cup grease.

STEAM ENGINE

Vertical center crank type.
Rated 12 H. P., Speed 180 R. P. M., Cylinder 7½″ x 8″.
Steam opening 1½″. Exhaust 2″.
Flywheel, 30″ x 7″. Crank shaft 2 $\frac{7}{16}$″.
Lubricator, Detroit sight-feed. Capacity ½ pint.
Governor, Gardner wide range, 1½″ diameter.
Throttle valve, Crane's quick opening.
Crank pin box and crosshead pin box are bronze.
Engine Chain, Rex Chabelco No. 520.
Engine furnished with special wrenches, oil cups and drain cocks.

STEAM BOILER

Vertical, full length tube type.
Rated 15 H. P. Overall height 80⅜″, dia. 36″.
Heating surface 151 sq. ft. Grate area 5.6 sq. ft.
Tubes, 68—2″ No. 13 gauge, 48″ long. Steam opening 1½″.
Safety valve 1½″, set at 100 pounds.
Check valve ½″, Stop valve ½″, Blow off 1″.
Steam gauge 5″, registers 200 pounds.
Injector, Penberthy AA.
Safety fusible plug, ½″ in No. 10 gauge tube at low water line.
All fittings, Jenkins.
Furnished with hinged smoke-stack, flue cleaner, hoe and poker.
Boilers built to comply with State regulations.

GENERAL

Each machine thoroughly inspected and painted
Each machine tested under its own power.

REX MIXERS

Specifications of Rex 28-S Mixer

STANDARD EQUIPMENT

Steel Frame on Skids.
Standard Charging Hopper or Batch Hopper.
Automatic Water Tank.
Steam Power.
Gear Connection for Motor.

CAPACITY

42 cu. ft. unmixed cement, sand and stone.
28 cu. ft. mixed concrete.

RATING

40 batches per hour 42 cu. yds. concrete.
50 batches per hour 52 cu. yds. concrete.

OVER-ALL DIMENSIONS

See pages 14—17.

FRAME

Special steel car body under-frame.
Sills 10″—25 lb. I-beam, length 15′-0″, width 5′-0″.
Platform ¼″, open hearth steel, length 3′-9″, width 5′-0″
Upper Frame 4″ x 4″ x $\frac{5}{16}$ angles.

DRUM

Cast of refined semi-steel, in two pieces.
Machine finished tracks, flanged joint.
Charging opening, 24″ diameter.
Discharging opening, 21½″ diameter.
Mixing Blades, 4 open hearth steel specially shaped.
Drum Drive Chain, Rex Chabelco No. 2065.
Speed of Drum Drive Chain, 14 R. P. M.
Drum Sprocket, 77 teeth, 7 sections bolted to drum flange.

DRUM ROLLERS

Chilled semi-steel, face 6″, hub 12″, diameter large 19¾″, small 15″.
Fitted with bronze bushings, 12″ x 3½″ diameter x 2 $\frac{15}{16}$″ bore.
Lubrication through center of shaft by means of large compression grease cups.

DRUM ROLLER SHAFT

Cold Rolled Steel 2 $\frac{15}{16}$″ x 5′-0″.

COUNTERSHAFT

Cold Rolled Steel, 2 $\frac{15}{16}$″ x 4′-8½″.
Speed 90 R. P. M.
Fitted with special winch head on discharge side.

DISCHARGE CHUTE

Pivoted type. ⅜″ Special Carbon Steel.
Discharges sloppy concrete 15 to 20 seconds.
Discharges heavy concrete 15 seconds.

STANDARD CHARGING HOPPER

Length 3′-6″, width 2′-0″.
Height from ground to top of hopper on skid machine, 6′-0″.
Made of No. 10 Special Carbon Steel, reinforced on top edge with 1½″ x 1½″ x ¼″ angle.

BATCH HOPPER

Height from ground to top of hopper on skid machine 8′-11½″
Made of No. 10 Special Carbon Steel reinforced at top edge with 2½″ x 2½″ x ¼″ angle.
Capacity, 45 cu. ft.

AUTOMATIC WATER TANK

Automatic measuring pressure type.
Dimensions 20″ x 36″.
Capacity 48 gallons.
Inlet 1″, outlet 2½″.
Tested 150 pound hydrostatic pressure.

STEAM ENGINE

Vertical center crank type.
Rated 16 H. P.—Speed 180 R. P. M., Cylinder 8″ x 8″.
Steam opening 1½″—exhaust 2″.
Flywheel, 32″ x 8″, Crank Shaft 2 $\frac{15}{16}$″.
Lubricator, Detroit, sight feed capacity ½ pint.
Governor, Gardner wide range, 1½″ diameter.
Throttle valve, Crane's quick opening.
Crank pin box and crosshead pin box are bronze.
Engine chain, Rex Chabelco No. 525.
Engine furnished with special wrenches, oil cups and drain cocks.

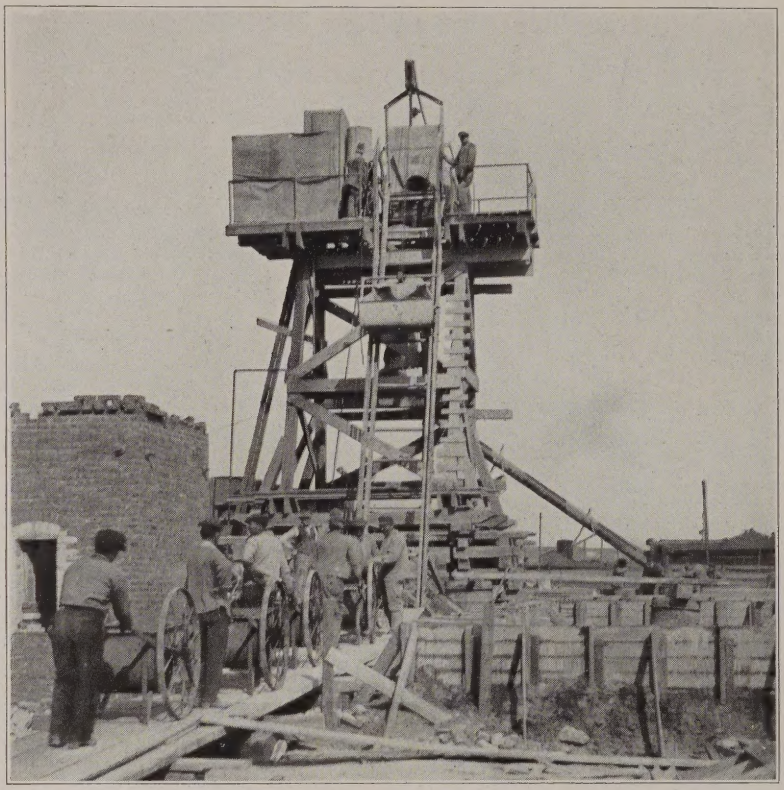
STEAM BOILER

Vertical full length tube type.
Rated 18 H. P. over-all height 89⅜″, diameter 36″.
Heating surface 185 sq. ft. Grate Area 5.6 sq. ft.
Tubes, 68—2″ No. 13 gauge, 57″ long.
Steam opening 1½″.
Safety Valve, 1½″ set at 100 pounds.
Check Valve, ½″, Stop Valve ½″, Blow off 1″.
Steam Gauge 5″, registers 200 pounds.
Injector, Penberthy AA.
Safety fusible plug ½″ in No. 10 gauge tube at low water line.
All fittings, Jenkins.
Furnished with hinged smoke stack, flue cleaner, hoe and poker.
Boilers built to comply with State regulations.
Boiler mounted on separate skid frame.

GENERAL

Each machine thoroughly inspected and painted.
Each machine tested under its own power.

REX MIXERS



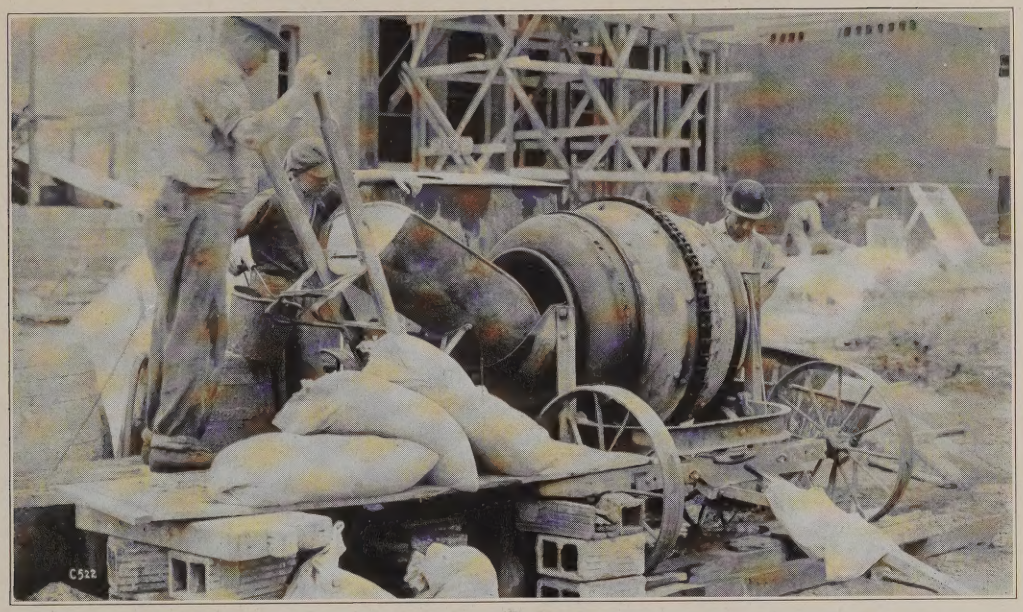
Power Loader Extension for Rex Mixers

Power Loader Extensions are furnished as special equipment on Rex 14-S and Rex 21-S Mixers.

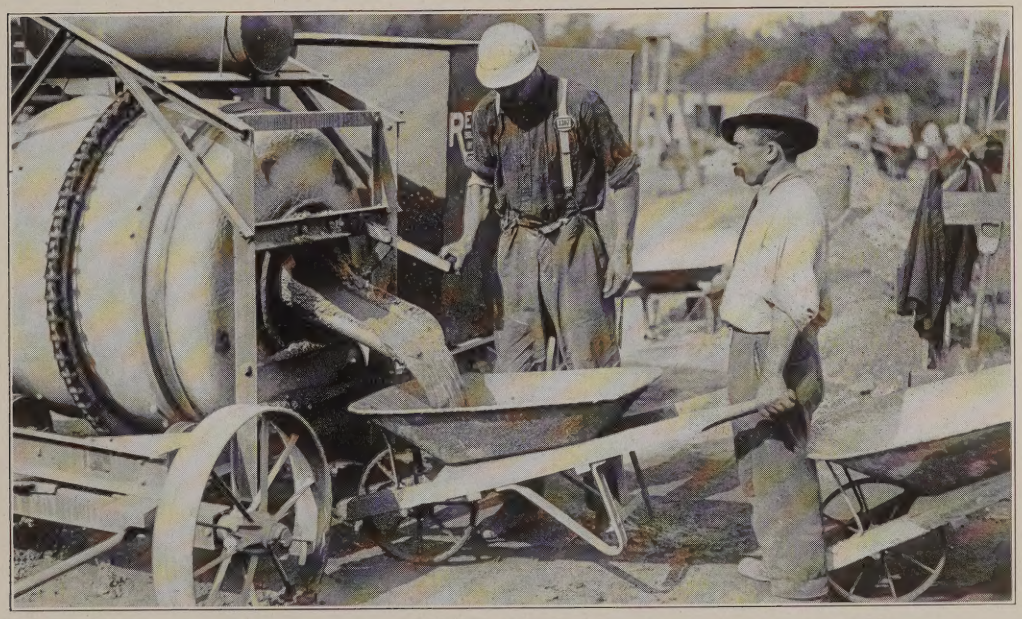
The extension track for the Power Loader is made in standard sections consisting of a curved head section and straight sections 5′-8″ long. The head section reaches from the pivoting point of the Loader to the ground level on a truck mounted machine. Both extension track and rollers can be readily attached to any Rex 14-S or Rex 21-S in the field. To do this the supports for the extention tracks are attached to the upright frame of the Mixer in place of the Loader Pivot Shaft Bearings. The Loader Pivot Shaft is then replaced by the Top Roller Shaft, the Bottom Roller Shaft attached to the Loader, and a longer cable substituted. This is all that is necessary to attach a Power Loader Extension to any Rex Mixer.

No extra power is required over that furnished on a standard Rex Mixer to operate the extended type of Power Loader.

REX MIXERS

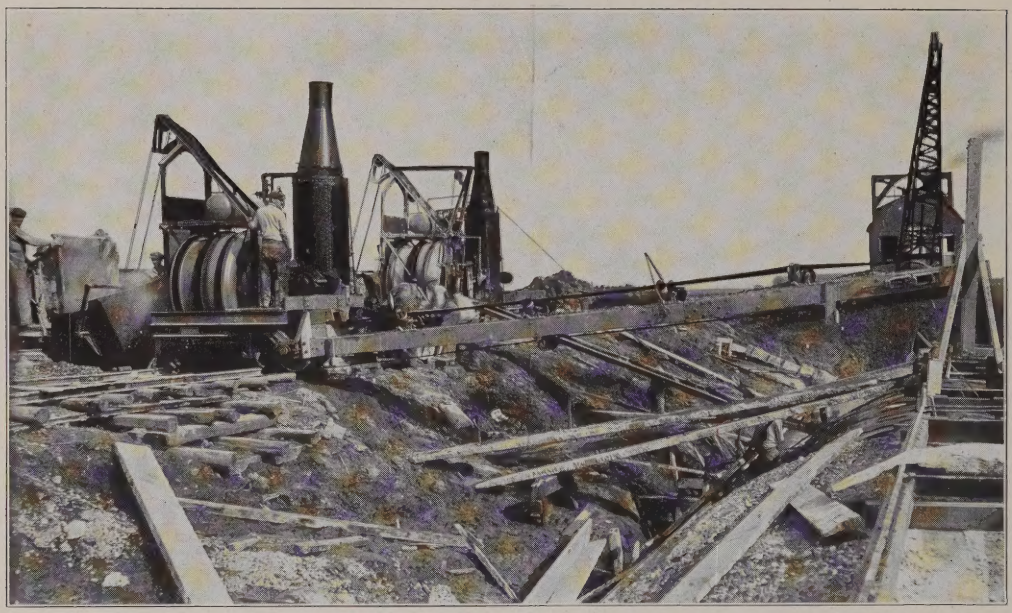


Rex 4-S turning out 35 yards of mixed concrete per day for Peterson & Son at Racine, Wis., owners of 3 Rex Mixers.

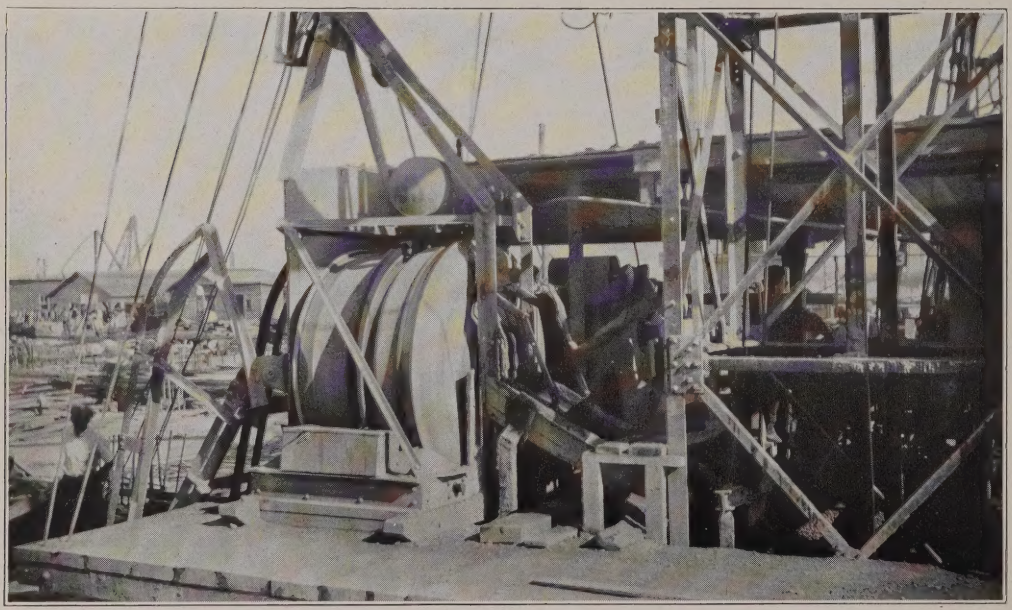


Rex 7-S with Power Loader and Tank, showing discharge. This is one of 40 Rex Mixers owned by Geo. A. Fuller Co., New York and Baltimore. The machine shown was used on Government housing, and temporary Government office buildings at Washington, D. C.

REX MIXERS

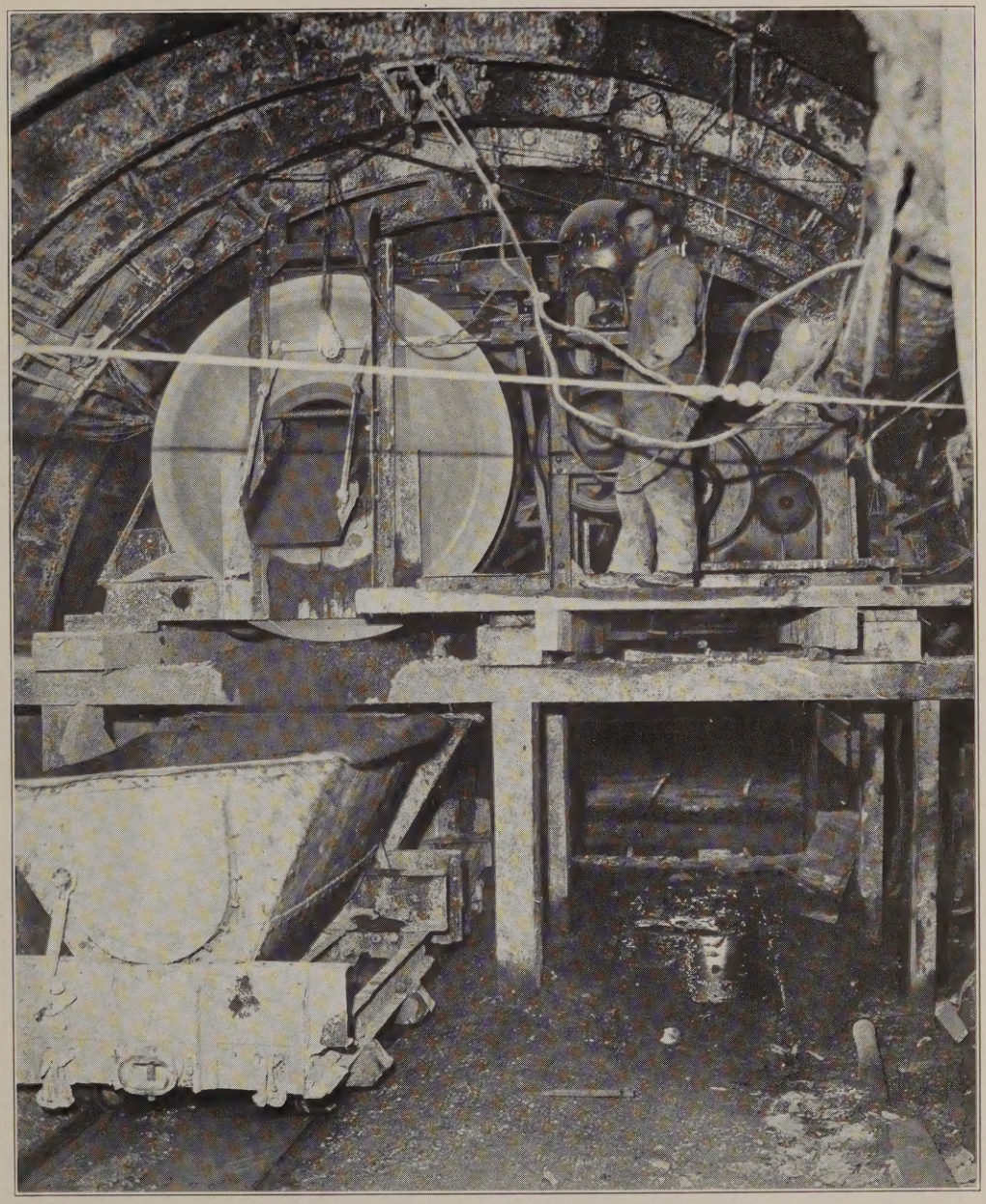


Two Rex 14-S machines on sewer work for the Chicago Sanitary District. These machines are owned by Nash Bros. who have 4 Rex Mixers.



Rex 21-S with Power Loader, Tank and Power Loader Extension, one of 33 Rex Mixers owned by Raymond Concrete Pile Co., at work on Government warehouse at Boston, Mass. Four contractors were engaged on this job using a total of 12 Rex Mixers.

REX MIXERS



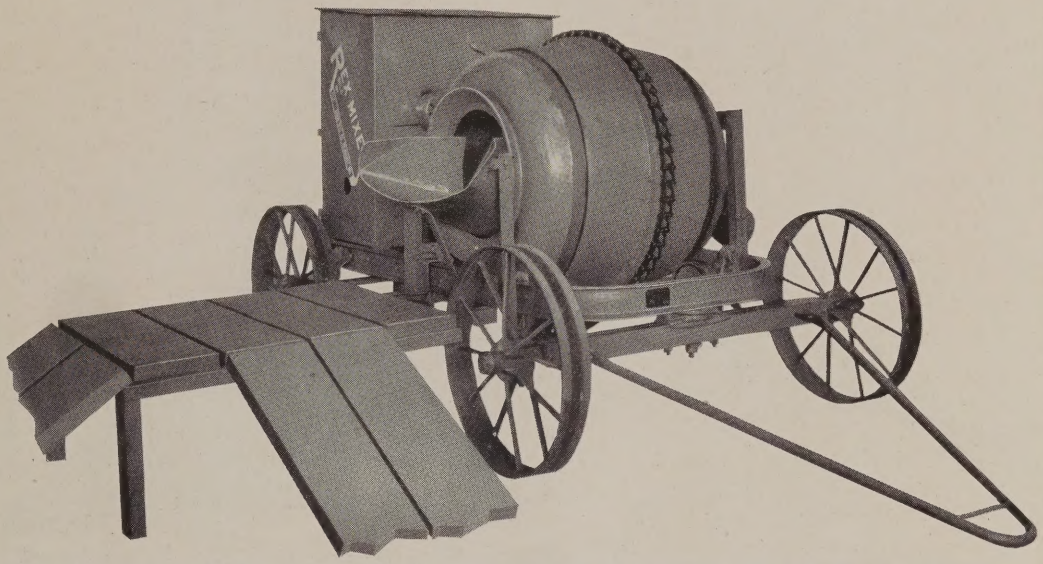
Rex 28-S at work on New York Subway. This is one of 10 Rex 28-S Mixers used on this job by Smith, Hauser, McIssac Co., Mason-Hanger Co., and Holbrook, Cabot, Rawlins Co. all of New York.

REX MIXERS

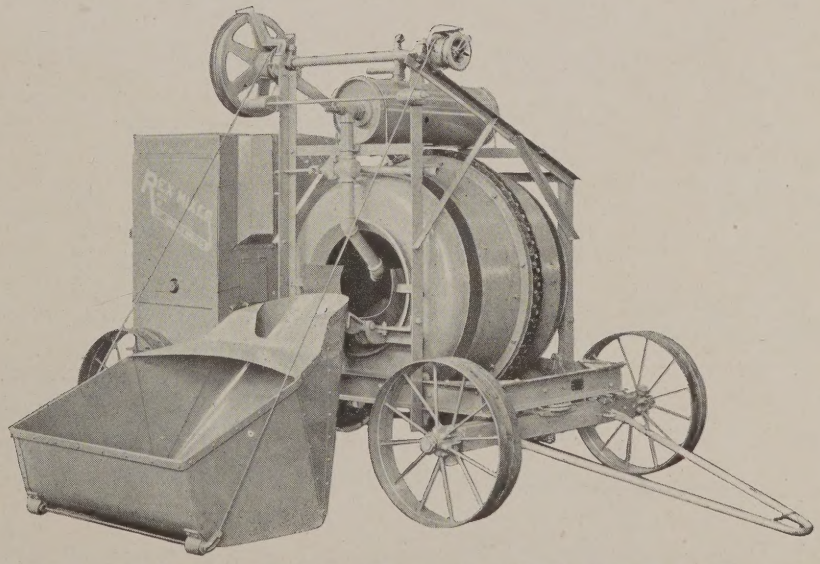
Government office buildings, Washington, D. C., built in 1918 by Rex Mixers exclusively. The work was done by Geo. A. Fuller Co. who own 40 Rex Mixers and Turner Construction Co. who own 27 Rex Mixers.

Rex 14-S with Power Loader, Tank and Power Loader Extension at work on concrete wharf at the Naval Academy, Annapolis. Work done by Raymond Concrete Pile Co. who own 33 Rex Mixers.

REX MIXERS

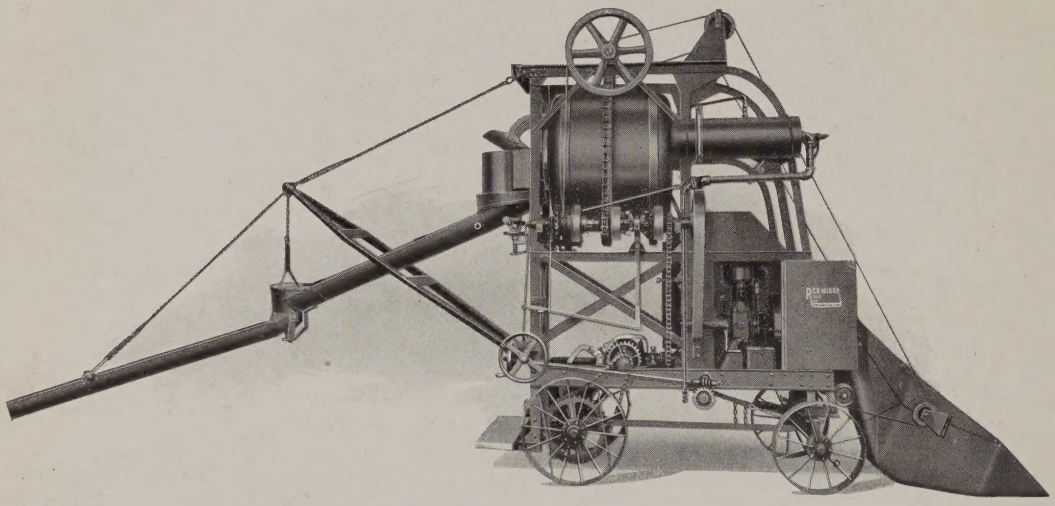


Rex 4-S complete with 3 H. P. Novo Gasoline Engine. Capacity 6 cubic feet of unmixed sand, stone and cement and 4 cubic feet of mixed concrete. For complete information send for Catalog No. 101.

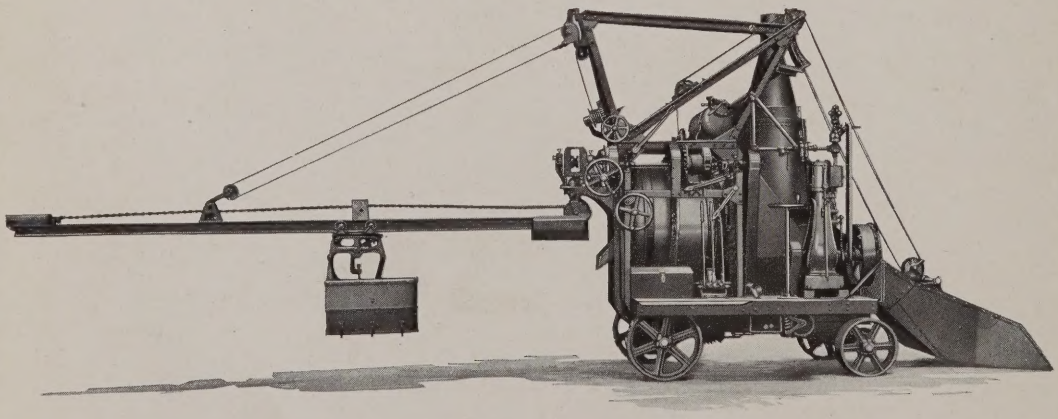


Rex 7-S Equipped with Power Loader and Water Tank. Capacity 10 cubic feet of unmixed sand, stone and cement, and 7 cubic feet of mixed concrete. For complete information send for Catalog 102.

REX MIXERS



Rex 7-E Paver equipped with 8 H. P. Novo Gasoline Engine and 14 foot radial spout. Capacity 10 cubic feet unmixed sand, stone and cement and 7 cubic feet of mixed concrete. A light, traction drive mixer used extensively for road work, alleys, sewers, building, etc. For complete information send for Catalog 103.



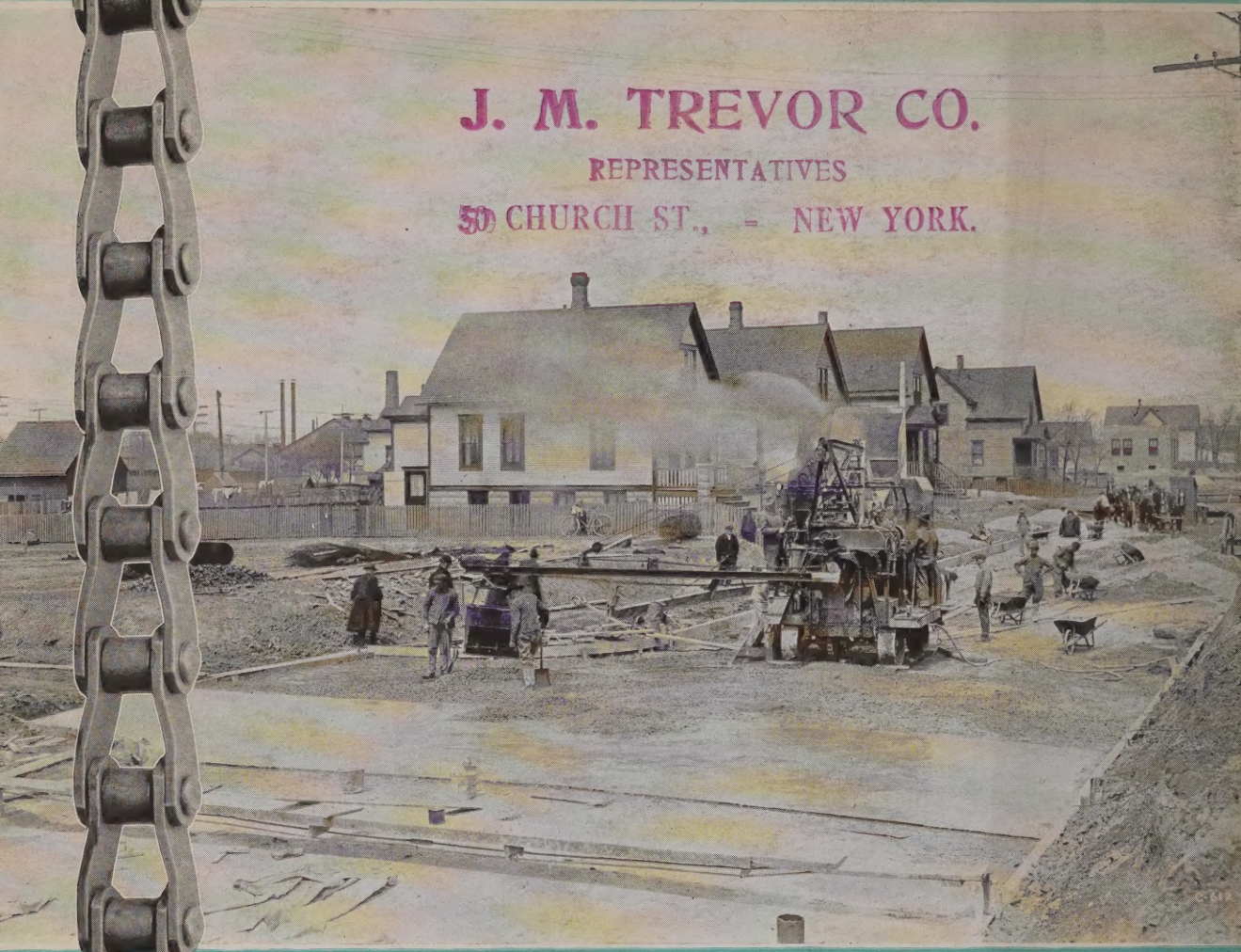
Rex 10-E Paver equipped with 8 H. P. Engine and 10 H. P. Boiler and 20 foot boom and bucket. Capacity 14 cubic feet unmixed sand, stone and cement and 10 cubic feet of mixed concrete. Made also in 14 foot size. For complete information send for Catalogs 104 and 105.

AVERY CLASSICS

J. M. TREVOR CO.

REPRESENTATIVES

50 CHURCH ST., - NEW YORK.



Rex 14-E Paver with Distributing Boom and Bucket, owned by Kroening Construction Co.

REX MIXERS

Reg. U. S. Pat. Off.

CHAIN BELT COMPANY

MILWAUKEE, WISCONSIN